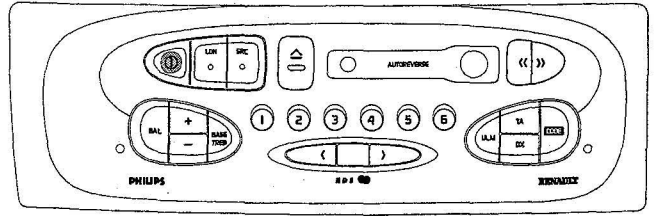


Service
Service
Service

22DC594 / 62F / 62L



For repair information of the Cassette deck see Service Manual No 4822 725 xxxxx of Auto Cassette Deck CDS101Y

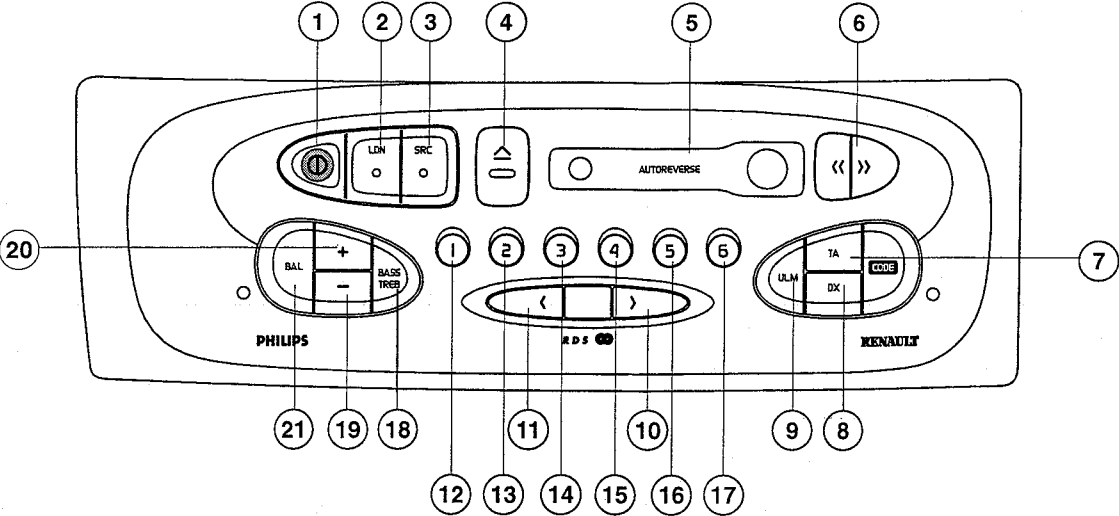
Service Manual

12 V 

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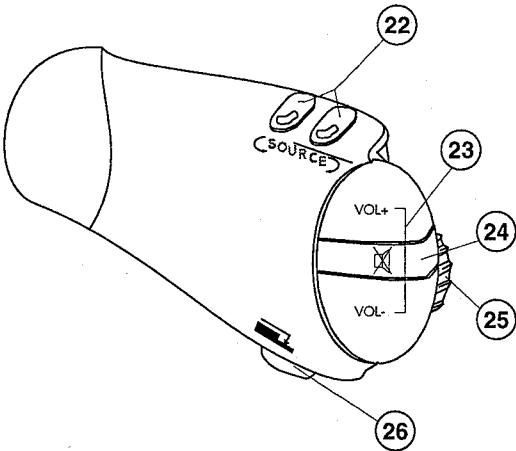


Front



POS	22DC593/62L	22DC594/62F	22DC594/62L
1	On / Off		
2	Loudness		
3	Source		
4	Eject button		
5	Cassette opening + flap		
6	FRW - FFW Buttons		
7	Info / Traffic announcement		
8	DX Mode		
9	Band Select		
10	Search UP	Search UP / Next track	
11	Search DOWN	Search DOWN / Previous track	
12	Preset 1	Preset 1 / Scan / Disk 1	
13	Preset 2	Preset 2 / Scan / Disk 2	
14	Preset 3	Preset 3 / Scan/ Disk 3	
15	Preset 4	Preset 4 / Scan / Disk 4	
16	Preset 5	Preset 5 / MSS	Preset 5 / MSS / Scan / Disk 5
17	Preset 6	Preset 6 / Dolby	Preset 6 / Dolby / Scan / Disk 6
18	Bass / Treble		
19	Vol , Bass, Treble, Balance -	Vol , Bass, Treble, Balance, Fader -	
20	Vol , Bass, Treble, Balance +	Vol , Bass, Treble, Balance, Fader +	
21	Balance	Balance / Fader	

Remote control

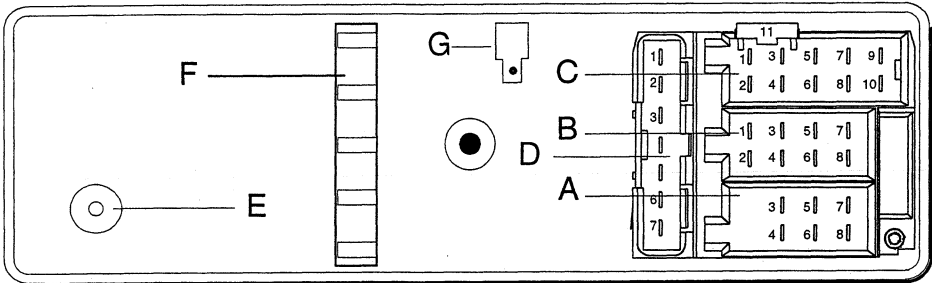


22	Change waveband/source	
23	Vol , Bass, Treble, Balance, Fader + and - when corresponding function activated	
24	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	All others modes: Mute / Demute
25	In code entry mode: Selection digits Sec Code	Changing preset / Track selection
26	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	In radio mode: SP : search UP LP : Starts Autostore

SP : Short press LP : Long press (>2s)

22DC593/62L
22DC594/62L
22DC594/62F

CONNECTIONS



POS	FUNCTION	DC593/62L	DC594/62F	DC594/62L
A1				
A2				
A3	Mute radio (0V)	X	X	X
A4	Plus permanent	X	X	X
A5	+ Antenna	X	X	X
A6	Pilot light	X	X	X
A7	Plus accessories	X	X	X
A8	GND	X	X	X
B1	Rear right +		X	X
B2	Rear right -		X	X
B3	Front right +	X	X	X
B4	Front right -	X	X	X
B5	Front left +	X	X	X
B6	Front left -	X	X	X
B7	Rear left +		X	X
B8	Rear left -		X	X
C1	Screening D2B			X
C2	Bus D2B +			X
C3	Bus D2B -			X
C4	GND supply			X
C5	CD supply (A4)			X
C6				
C7	Info on / off (A5)			X
C8	input right			X
C9	Input left			X
C10	Input ref			X
C11	Screening CD			X
D1	Data I2C	X	X	X
D2	Clock I2C	X	X	X
D3	Mrq I2C	X	X	X
D4				
D5				
D6	+ antenna	X	X	X
D7	GND	X	X	X
E	AERIAL PLUG	X	X	X
F	Fastening cable	X	X	X

TECHNICAL DATA

GENERAL

Power supply : 14.4V DC
Dimensions : 180x150x51 mm
Security code : Yes
Remote control : Yes
Remote display : Yes

RADIO

LW : 153-279 KHz
MW : 531-1602 KHz
FM : 87.5-108 MHz
IF-AM (1/2) : 10.7 MHz/450 KHz
IF-FM (1/2) : 72.2 MHz/10.7 MHz
Sensitivity 26dB S/N : <40 μ V (LW)
: <40 μ V (MW)
: 3.5 μ V (FM)

Limitation α -3dB

: 3 μ V<L<14 μ V

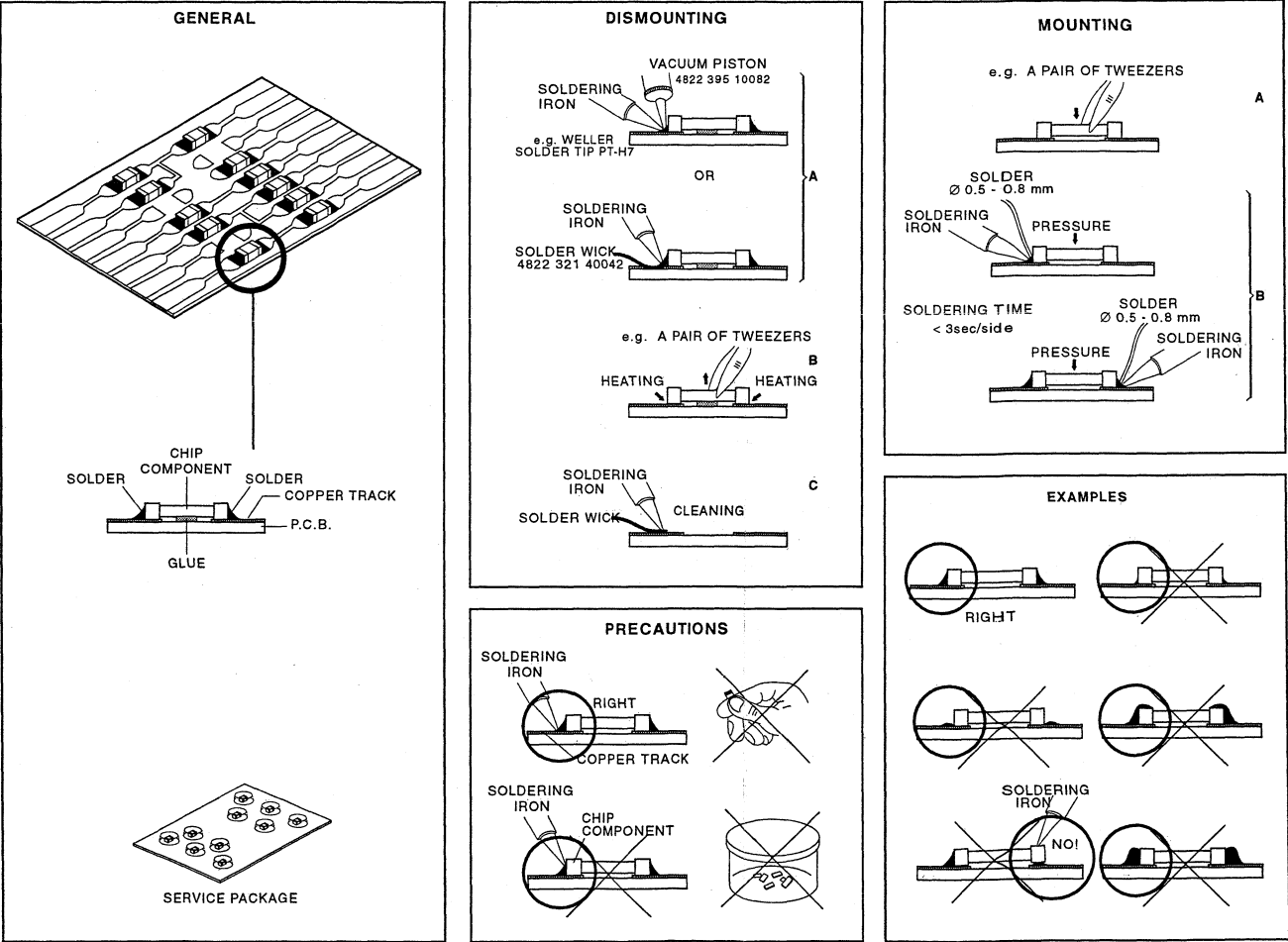
CASSETTE

Cassette mechanism : CDS101-Y
Number of tracks : 2x2
Tape speed : 4.76 cm/sec
Wow and flutter : \leq 0.35%
Crosstalk : \geq 30 dB

AMPLIFIER

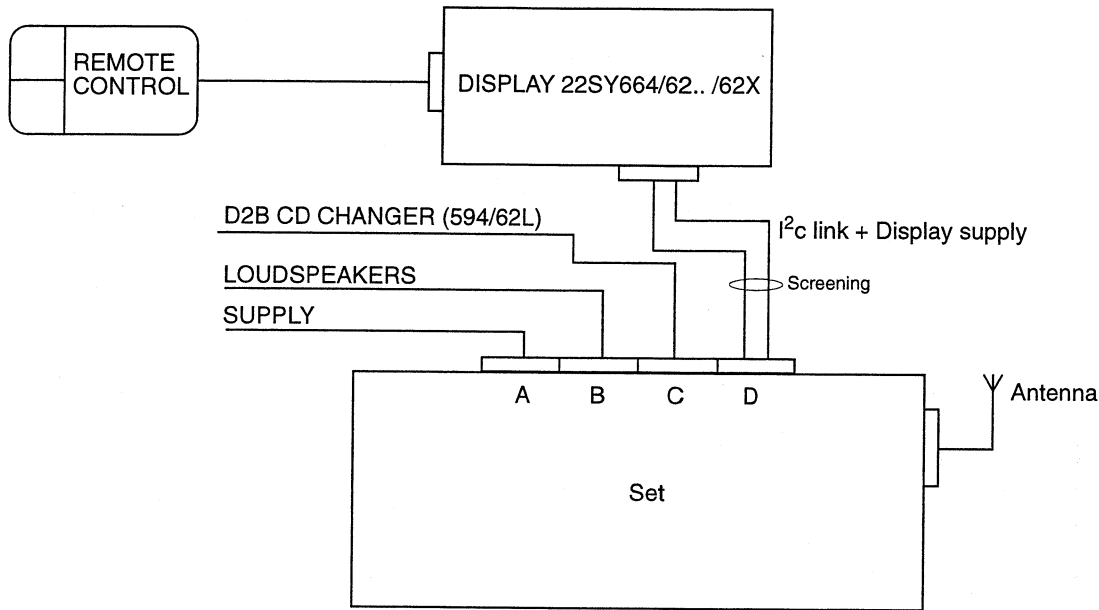
Output power : 4x15 W / 4 Ω (THD = 10%) DC594
: 2x6W / 4 Ω (THD = 10%) DC593
Fader control : >12 dB (DC594 only)
Balance control : >15 dB
Source separation : >60 dB
Input sensivity (CD in) : 150 mV \pm 2 dB

HANDLING CHIP COMPONENTS



- These sets are parts of a system, composed of the following parts:
- 1)- The set 22DC593/62L, 594/62L or 594/62F.
 - 2)- A remote control + cable.
 - 3)- A remote display 22SY664/62 or 62X.
 - 4)- A cable link between the set (connector D) and the display.

-IN CASE YOU NEED PARTS OF THIS SYSTEM, PLEASE CONTACT LOCALLY RENAULT TO GET INFO ABOUT THESE PARTS.



This set is protected by a security code. **THE CODE CAN ONLY BE ENTERED VIA THE REMOTE CONTROL.**

Entering the code:

-) Press the On/Off key to switch on the set. COD and then 0000 will appear on the display.
 -) To select the four digits of the code:
 - Adjust the flashing digit with the thumbwheel on the remote control.
 - Press the [24] key or [26] key on the remote control to change the digit.
 -) Press the [24] key or [26] key for at least 2 seconds to validate the code.
- When the code is activated a bleep will be heard.

Example : you want to enter the code 7637

	Turn the thumbwheel Press [24] or [26]	Turn the thumbwheel Press [24] or [26]	Turn the thumbwheel Press [24] or [26]	Turn the thumbwheel Press [24] or [26]	Press [24] or [26] for at least 2 seconds
0000	7000	7600	7630	7637	Last heard frequency

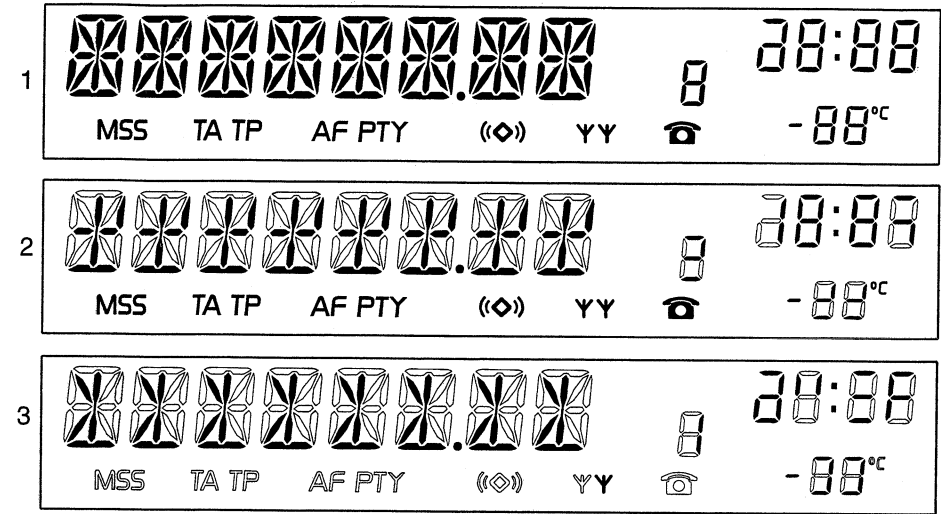
SYSTEM TESTS

WARNING: this test needs a display 22SY656/62B to be completed

1 - Display connection check

Starting the test: supply the display with the 12V acc without radio connected or radio switched off while <Vol+>sat, <Vol->sat and <SOURCE>sat are pressed together.

If there is no problem, the following test will start.
The display shows 3 different screens:



These screens are displayed in sequence each time you press the <26>sat button. It can be aborted by Switching On the set.

2 - Keyboard test

Starting the test: press P3 and ON.

“T” is displayed to request keyboard test. For each key pressed, the number of the pressed key appears, according to the table shown below. When all 17 keys have been pressed, “TEST OK” message is displayed.

This test can be aborted at any time by switching the set OFF.

number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
key	LDN	BAL FAD	+	-	BAS TRE	Pr 1	Pr 2	Pr 3	Pr 4	Pr 5	Pr 6	ULM	TA	DX	SRC	<	>

If all is right, thr display shows “KEYS OK”

3 - Check sum and Running times (Multiples of ten minutes)

At the end of the keyboard test, press P3 to start this test.
The display will show in order, during 5s each :

- 1) the checksum of the front microprocessor : CSF 027B
- 2) the checksum of the main microprocessor : CSM C0BC
- 3) the running time in tuner mode : TU
- 4) the running time in cassette mode : TA
- 5) the running time in Cd changer mode CDC
- 6) the running time in Traffic Announcement TR
- 7) the running time in Telephone Call SP
- 8) the total running time TOT
- 9) the running time in nominal mode I²C NOM

These indications are displayed in a loop. To end the test, switch Off the set.

22DC593/62L
22DC594/62F
22DC594/62L

INTEGRATED CIRCUITS

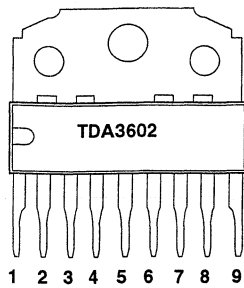
SAA6579T Radio Data System demodulator

SYMBOL	PIN	DESCRIPTION
QUAL	1	quality indication output
RDDA	2	RDS data output
V _{ref}	3	reference voltage output (0.5 V _{DDA})
MPX	4	multiplex input signal
V _{DDA}	5	+5V supply voltage for analog part
V _{SSA}	6	ground for analog part (0V)
CIN	7	subcarrier input to comparator
SCOUT	8	subcarrier output for reconstruction filter
TCTR	9	test control
TEN	10	test enable
V _{SSD}	11	ground for digital part (0V)
V _{DDD}	12	+5V supply voltage for digital part
OSCI	13	oscillator input
OSCO	14	oscillator output
T57	15	57kHz clock signal output
RDCL	16	RDS clock output



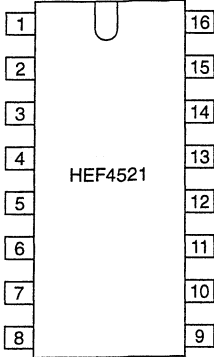
TDA3602 Multiple output voltage regulator

SYMBOL	PIN	DESCRIPTION
V _p	1	positive supply voltage
REG1	2	regulator 1 output
RESET	3	reset output
SCI	4	state control input
HOLD	5	hold output
GND	6	ground
REG3	7	regulator 3 output
V _{bu}	8	back-up
REG2	9	regulator 2 output



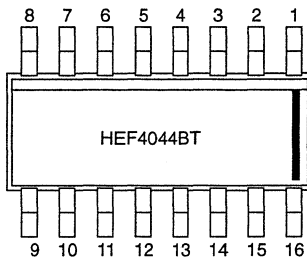
HEF4521BP 24-stage frequency divider

SYMBOL	PIN	DESCRIPTION
O ₂₄	1	output 2 ²⁴
MR	2	asynchronous master reset
V _{SS}	3	
O ₂	4	
V _{DD}	5	
I ₂	6	
O ₁	7	
V _{SS}	8	ground
I ₁	9	
O ₁₈	10	output 2 ¹⁸
O ₁₉	11	output 2 ¹⁹
O ₂₀	12	output 2 ²⁰
O ₂₁	13	output 2 ²¹
O ₂₂	14	output 2 ²²
O ₂₃	15	set input 3 (active LOW)
V _{DD}	16	power supply



HEF4044BT Quad R/S latch with 3-state outputs

SYMBOL	PIN	DESCRIPTION
O ₃	1	3-state buffered latch output 3
n.c	2	
\bar{S}_0	3	set input 0 (active LOW)
\bar{R}_0	4	reset input 0 (active LOW)
E0	5	common output enable input
\bar{R}_1	6	reset input 1 (active LOW)
\bar{S}_1	7	set input 1 (active LOW)
V _{SS}	8	ground
O ₁	9	3-state buffered latch output 1
O ₂	10	3-state buffered latch output 2
\bar{S}_2	11	set input 2 (active LOW)
\bar{R}_2	12	reset input 2 (active LOW)
O ₀	13	3-state buffered latch output 0
\bar{R}_3	14	reset input 3 (active LOW)
\bar{S}_3	15	set input 3 (active LOW)
V _{DD}	16	supply



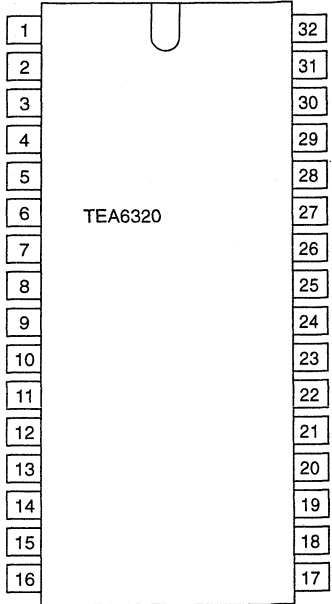
FUNCTION TABLE

inputs			output
E0	\bar{S}_n	\bar{R}_n	O _n
L	X	X	Z
H	L	H	H
H	X	L	L
H	H	H	latched

Z = high impedance OFF-state

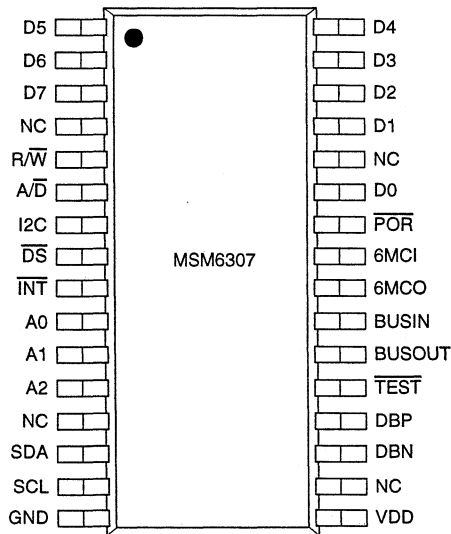
TEA6320 SOFAC (SOund Fader Control circuit)

SYMBOL	PIN	DESCRIPTION	SYMBOL	PIN	DESCRIPTION
SDA	1	serial data input/output	IAR	17	input A right source
GND	2	ground	IBR	18	input B right source
OUTLR	3	output left rear	CAP	19	electronic filtering for supply
OUTLF	4	output left front	ICR	20	input C right source
TL	5	treble control capacitor left channel or input from an external equalizer	V _{ref}	21	reference voltage (0.5Vcc)
B2L	6	bass control capacitor left channel or output to an external equalizer	IDR	22	input D right source
B1L	7	bass control capacitor, left channel	QSR	23	output source selector right channel
IVL	8	input volume I, left control part	ILR	24	input loudness right channel
ILL	9	input loudness, left control part	IVR	25	input volume I, right control part
QSL	10	output source selector, left channel	B1R	26	bass control capacitor, right channel
IDL	11	input D left source	B2R		bass control capacitor right channel or output to an external equalizer
MUTE	12	mute control	TR	28	treble control capacitor right channel or input from an external equalizer
ICL	13	input C left source	OUTRF	29	output right front
IMO	14	input mono source	OUTRR	30	output right rear
IBL	15	input B left source	Vcc	31	supply voltage
IAL	16	input A left source	SCL	32	serial clock input

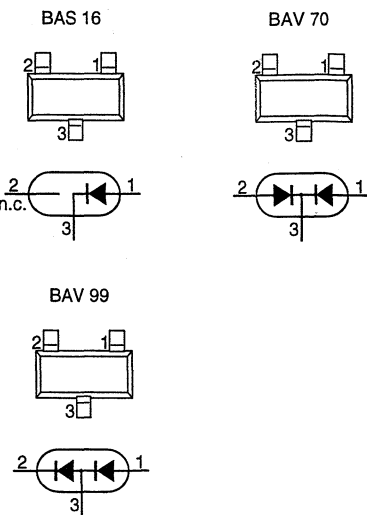


MSM6307GS D²B IC

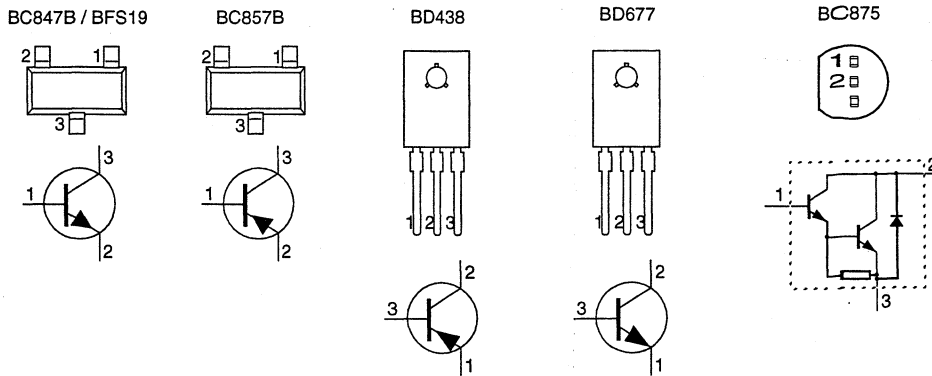
SYMBOL	I/O	DESCRIPTION
\overline{POR}	I	Power on - reset
R / \overline{W}	I	Read / Write selector
\overline{DS}	I	Data strobe to access data bus
A / \overline{D}	I	Selects address or data on D0 - d7
SDA	I/O	I ² C data signal input / output
SCL	I/O	I ² C clock signal input / output
I2C	I	Selects I ² C or parallel interface
\overline{INT}	O	Interrupt output
BUSIN	I	D2B input (TTL level)
BUSOUT	O	D2B output (TTL level)
DBN & DBP	I/Os	Differential D2B lines of the internal driver/ receiver, to be terminated with 60Ω
TEST	I	Selects the test mode for factory purposes
6MCI	I	Clock input 6MHz resonator or X-TAL
6MCO	O	Clock output 6MHz resonator or X-TAL
D0 - D7	I/Os	8-bit bi-directional address or data bus
A0 - A2	I	Programmables I ² C slave addresses



DIODES



TRANSISTORS



DC VOLTAGES

All measurements in FM, set tuned, 0dB at output.
All settings in mid position. Values are given for indication only.

IC91 TUNER MODULE		7251 TEA0675T	
1 = 0.5 V	11 = 2.9 V	1 = 4.0 V	13 = 4.0 V
2 = GND	12 = 4.7 V	2 = 3.4 V	14 = GND
3 = N.C.	13 = 4.9 V	3 = 3.9 V	15 = N.C.
4 = N.C.	14 = 4.8 V	4 = 3.9 V	16 = GND
5 = N.C.	15 = N.C.	5 = 3.9 V	17 = 4.0 V
6 = 4.9 V	16 = 3.6 V	6 = 5.6 V	18 = 4.0 V
7 = 8.3 V	17 = 3.6 V	7 = 4.0 V	19 = 4.5 V
8 = GND	18 = 0.0 V	8 = 4.0 V	20 = 3.9 V
9 = 4.9 V	19 = N.C.	9 = 8.2 V	21 = 0.6 V
10 = 4.6 V	20 = N.C.	10 = 3.6 V	22 = 3.4 V
		11 = 4.0 V	23 = 3.0 V
		12 = 4.0 V	24 = 4.0 V
7257 LA2000		7601 ST24C16	
1 = 1.8 V	6 = 5.0 V	1 = 5.0 V	5 = 5.0 V SDA
2 = 7.3 V	7 = N.C.	2 = 5.0 V	6 = 5.0 V SCL
3 = 2.1 V	8 = N.C.	3 = 5.0 V	7 = GND
4 = N.C.	9 = 8.5 V	4 = GND	8 = 5.0 V
5 = GND			
7350 TDA8579T		7602 HEF4521	
1 = 4.8 V	5 = GND	1 = N.C.	9 = 2.5 V
2 = 5.0 V	6 = 4.4 V	2 = GND	10 = 1 Hz
3 = 4.8 V	7 = 4.4 V	3 = GND	11 = N.C.
4 = 5.2 V	8 = 8.5 V	4 = 3.5 V	12 = N.C.
		5 = 5.0 V	13 = N.C.
		6 = 3.5 V	14 = N.C.
		7 = 3.5 V	15 = N.C.
		8 = GND	16 = 5.0 V
7354 TEA6320		7603 MSM6307GS	
1 = 5.0 V	17 = 3.7 V	1 = 5.0 V	17 = 5.0 V
2 = GND	18 = 3.9 V	2 = 5.0 V	18 = N.C.
3 = 3.6 V	19 = 7.6 V	3 = 5.0 V	19 = 2.3 V
4 = 3.9 V	20 = 4.4 V	4 = N.C.	20 = 2.3 V
5 = 3.9 V	21 = 3.9 V	5 = 5.0 V	21 = 5.0 V
6 = 3.9 V	22 = N.C.	6 = 5.0 V	22 = N.C.
7 = 3.9 V	23 = 3.7 V	7 = 5.0 V	23 = 5.0 V
8 = 3.5 V	24 = 3.8 V	8 = 5.0 V	24 = 5.75 MHz
9 = 3.8 V	25 = 3.5 V	9 = 5.0 V	25 = 5.75 MHz
10 = 3.7 V	26 = 3.9 V	10 = 5.0 V	26 = 4.8 V
11 = N.C.	27 = 3.9 V	11 = 5.0 V	27 = 5.0 V
12 = 7.6 V	28 = 3.9 V	12 = 5.0 V	28 = N.C.
13 = 4.4 V	29 = 3.9 V	13 = N.C.	29 = 5.0 V
14 = 3.8 V	30 = 3.9 V	14 = 4.9 V SDA	30 = 5.0 V
15 = 3.9 V	31 = 7.6 V	15 = 4.9 V SCL	31 = 5.0 V
16 = 3.6 V	32 = 5.0 V	16 = GND	32 = 5.0 V
7355 SAA6579T		7800 TDA3602	
1 = N.C.	9 = GND	1 = 13.4 V	6 = GND
2 = 3.1 V	10 = GND	2 = 8.5 V	7 = 5.0 V
3 = 2.5 V	11 = GND	3 = N.C.	8 = 13.2 V
4 = 2.5 V	12 = 4.9 V	4 = 0.6 V	9 = 5.0 V
5 = 4.9 V	13 = 4.332 MHz	5 = 5.0 V	
6 = GND	14 = 4.332 MHz		
7 = 2.3 V	15 = N.C.		
8 = 2.5 V	16 = 3.5 V		
7356 TL074		7826 HEF 4044BT	
1 = 4.2 V	8 = 4.2 V	1 = 0.0 V	9 = 5.0 V
2 = 4.2 V	9 = 4.3 V	2 = N.C.	10 = 0.0 V
3 = 4.1 V	10 = 4.1 V	3 = 3.5 V	11 = 4.8 V
4 = 8.2 V	11 = GND	4 = 4.6 V	12 = 5.0 V
5 = 4.1 V	12 = 4.2 V	5 = 5.0 V	13 = 5.0 V
6 = 4.3 V	13 = 4.2 V	6 = 4.0 V	14 = 5.0 V
7 = 4.2 V	14 = 4.2 V	7 = 5.0 V	15 = 5.0 V
		8 = GND	16 = 5.0 V
7551 TDA7374			
1 = 7.0 V	9 = GND		
2 = 7.0 V	10 = 0.0 V		
3 = 14.4 V	11 = 0.7 V		
4 = 0.7 V	12 = 0.7 V		
5 = 0.7 V	13 = 14.4 V		
6 = 0.7 V	14 = 7.0 V		
7 = 3.3 V	15 = 7.0 V		
8 = Earth			

Check and Alignment

No alignment is needed for radio part. IC91 tuner is pre-aligned.

For all measurement, please refer to "General Check & Alignment procedures for Car Systems'
4822 725 25456

Dolby alignment:

cassette	adjust	
MTT 150 F = 400 Hz/ 200 nWb	3260 and 3261	AC voltage at pin 1 & 24 of 7251 = 387.5 mV +/- 50mV

Checks:

Supply voltages (set Off)

SET OFF	Voltage	Current + Acc ON	Current + Acc OFF	Pin 14 µP	Pin 69 µP
Acc supply	+14.4V	< 20mA		min 4.8V max 5.2V	max 0.8V
Perm supply	+14.4V	< 3mA	< 3mA		

Supply voltages (set On)

device	µP	µP	µP	TDA3602	TDA3602	EEprom
pin	30 (reset)	14 (supply)	69 (hold)	9 (5V)	2 (8.5V)	8
Voltage	max 0.8V	min 4.8V max 5.2V	min 2.0V max 5.7V	min 4.8V max 5.2V	min 8.2V max 8.8V	min 4.8V max 5.2V

Reference oscillator frequencies

device	MSM 6307	µP	SAA6579T
pin	24 & 25	51 & 52	13 & 14
frequency	6 MHz 0.5%	11.5 MHz 0.5%	4.332 MHz 60 ppm

FM mute:

98 MHz 1mV	output at load resistor R & L = 775 mV = REF
no signal	output should be < -20 dB (REF - 20 dB)

Demodulated FM levels

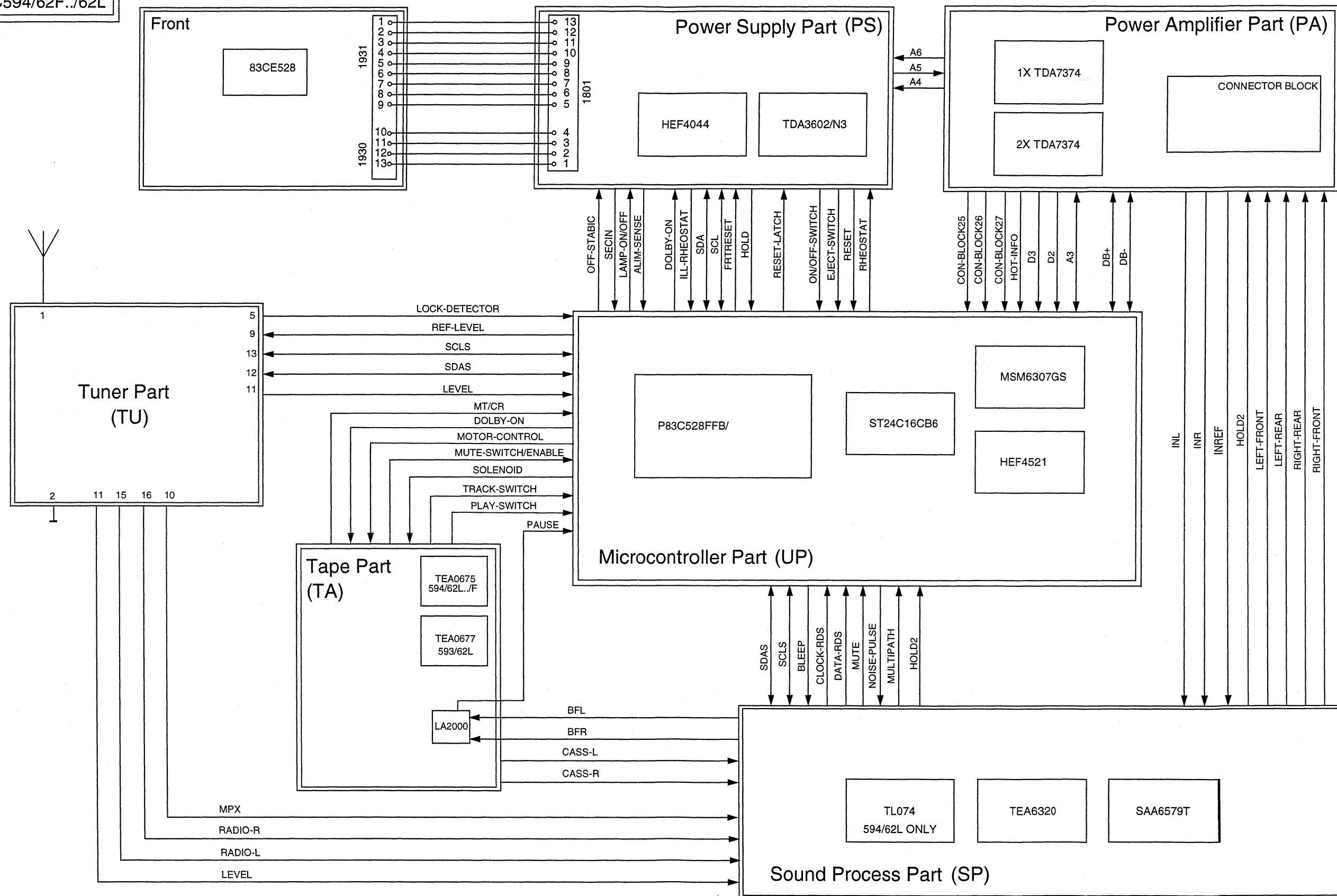
Input	Output of IC91 (pin 16 & 17)
98 MHz	300 mV ± 50 mV

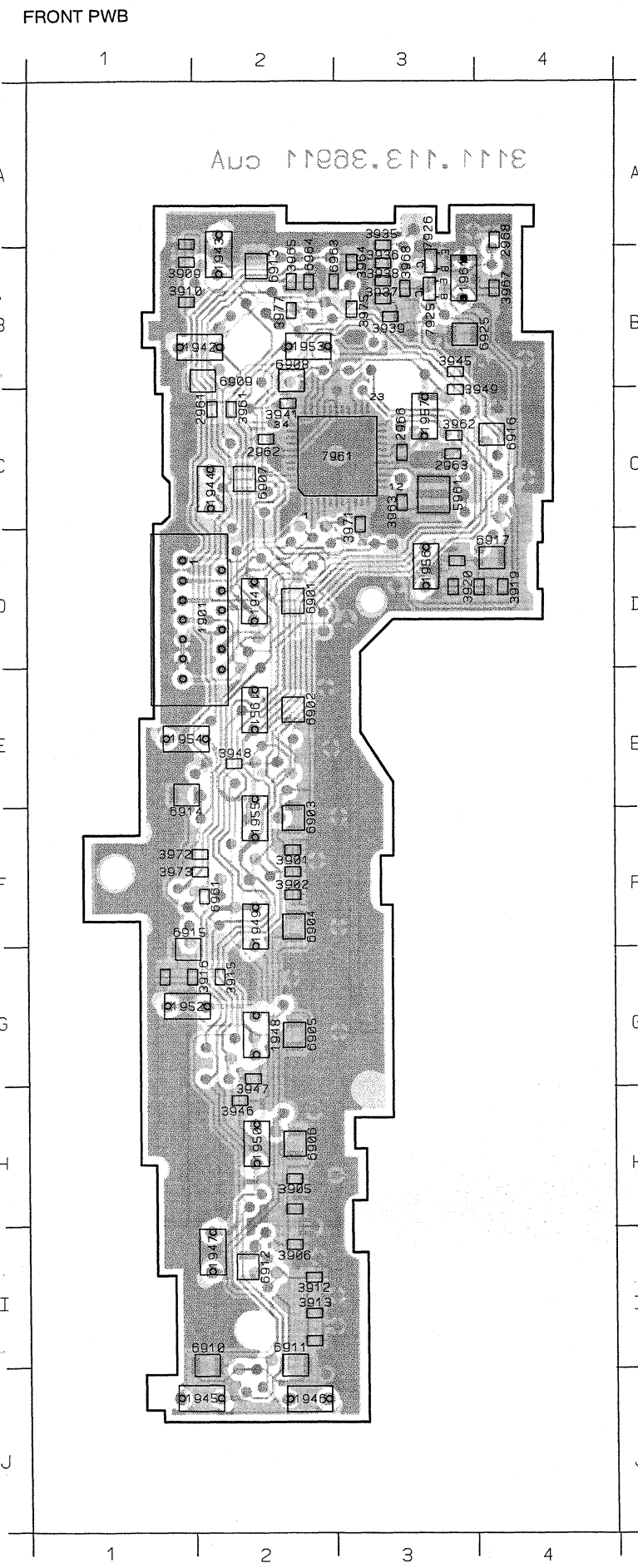
Limiting point α-3dB

Range	Input	min	nominal	max
87.5 to 108 MHz	1mV 400Hz	3µV	5.5µV	14µV

22DC593/62L
22DC594/62F../62L

BLOCK DIAGRAM
22DC593/62L
22DC594/62F../62L



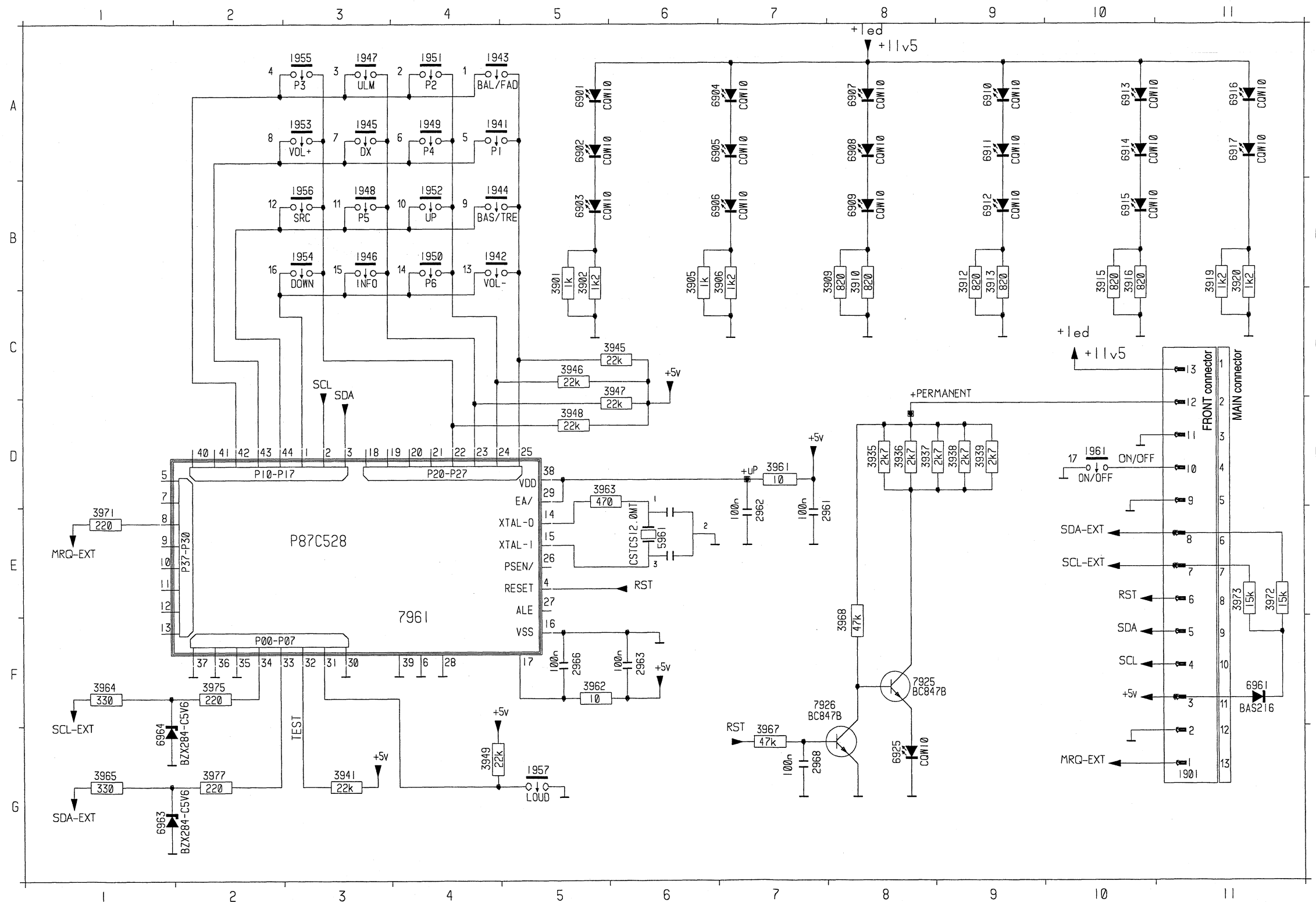


1901	D 2	3972	F 2
1941	D 2	3973	F 2
1942	B 1	3975	B 3
1943	B 2	3977	B 2
1944	C 2	5961	C 3
1945	J 1	6901	D 2
1946	J 2	6902	E 2
1947	I 2	6903	F 2
1948	G 2	6904	F 2
1949	F 2	6905	G 2
1950	H 2	6906	H 2
1951	E 2	6907	C 2
1952	G 1	6908	B 2
1953	B 2	6909	B 2
1954	E 1	6910	I 2
1955	F 2	6911	I 2
1956	D 3	6912	I 2
1957	C 3	6913	B 2
1961	B 3	6914	E 1
2961	C 2	6915	G 1
2962	C 2	6916	C 4
2963	C 3	6917	D 4
2966	C 3	6925	B 3
2968	A 4	6961	F 2
3901	F 2	6963	B 3
3902	F 2	6964	B 2
3905	H 2	7925	B 3
3906	I 2	7926	B 3
3909	B 1	7961	C 2
3910	B 1		
3912	I 2		
3913	I 2		
3915	G 2		
3916	G 2		
3919	D 4		
3920	D 3		
3935	A 3		
3936	B 3		
3937	B 3		
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3939	B 3		
3941	C 2		
3945	B 3		
3946	H 2		
3947	G 2		
3948	E 2		
3949	C 3		
3961	C 2		
3962	C 3		
3963	C 3		
3964	B 3		
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3968	B 3		
3971	C 3		

22DC593/62L
22DC594/62F./62L

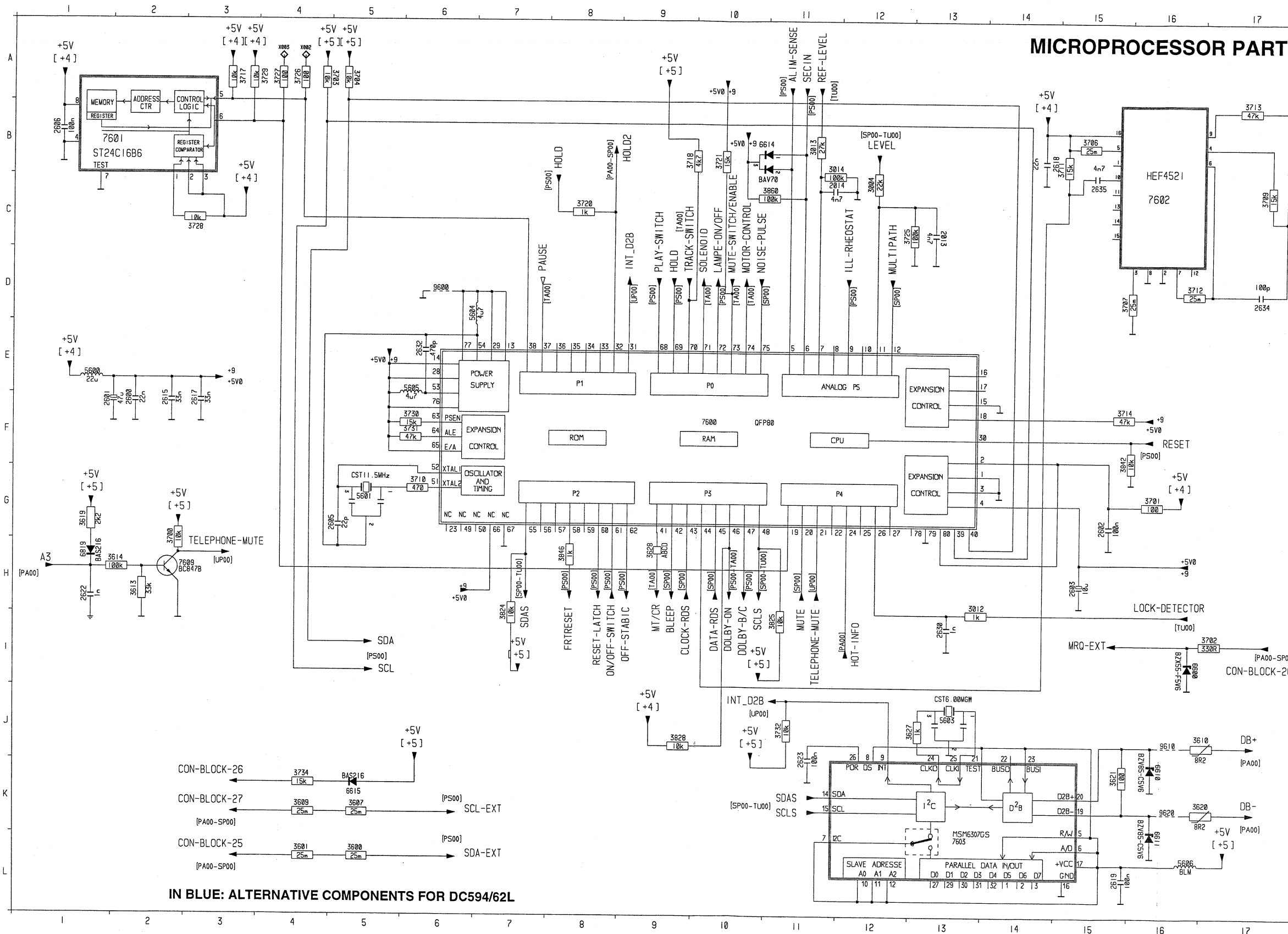
Miscellaneous						
1941	4822 276 13103	SWITCH	5961	4822 242 10435	CER RES 12MHZ	
1942	4822 276 13103	SWITCH	6901	4822 130 10417	LED SM LOT670-JK-E9139	
1943	4822 276 13103	SWITCH	6902	4822 130 10417	LED SM LOT670-JK-E9139	
1944	4822 276 13103	SWITCH	6903	4822 130 10417	LED SM LOT670-JK-E9139	
1945	4822 276 13103	SWITCH	6904	4822 130 10417	LED SM LOT670-JK-E9139	
1946	4822 276 13103	SWITCH	6905	4822 130 10417	LED SM LOT670-JK-E9139	
1947	4822 276 13103	SWITCH	6906	4822 130 10417	LED SM LOT670-JK-E9139	
1948	4822 276 13103	SWITCH	6907	4822 130 10417	LED SM LOT670-JK-E9139	
1949	4822 276 13103	SWITCH	6908	4822 130 10417	LED SM LOT670-JK-E9139	
1950	4822 276 13103	SWITCH	6909	4822 130 10417	LED SM LOT670-JK-E9139	
1951	4822 276 13103	SWITCH	6910	4822 130 10417	LED SM LOT670-JK-E9139	
1952	4822 276 13103	SWITCH	6911	4822 130 10417	LED SM LOT670-JK-E9139	
1953	4822 276 13103	SWITCH	6912	4822 130 10417	LED SM LOT670-JK-E9139	
1954	4822 276 13103	SWITCH	6913	4822 130 10417	LED SM LOT670-JK-E9139	
1955	4822 276 13103	SWITCH	6914	4822 130 10417	LED SM LOT670-JK-E9139	
1956	4822 276 13103	SWITCH	6915	4822 130 10417	LED SM LOT670-JK-E9139	
1957	4822 276 13103	SWITCH	6916	4822 130 10417	LED SM LOT670-JK-E9139	
1961	4822 276 13103	SWITCH	6917	4822 130 10417	LED SM LOT670-JK-E9139	
			6925	4822 130 10417	LED SM LOT670-JK-E9139	
2961	4822 126 13196	100nF 10% 25V X7R 0805	6961	4822 130 83757	DIODE BAS216	
2962	4822 126 13196	100nF 10% 25V X7R 0805	6963	4822 130 10185	DIODE REG SM UDZ5.6B	
2963	4822 126 13196	100nF 10% 25V X7R 0805	6964	4822 130 10185	DIODE REG SM UDZ5.6B	
2966	4822 126 13196	100nF 10% 25V X7R 0805				
2968	4822 126 13196	100nF 10% 25V X7R 0805	7925	4822 130 60511	BC847B	
			7926	4822 130 60511	BC847B	
3901	4822 051 20102	1KΩ 5% RC11 0805	7961	4822 209 13611	P83CE528EFB/017	
3902	4822 051 20122	1KΩ 5% RC11 0805				
3905	4822 051 20102	1KΩ 5% RC11 0805				
3906	4822 051 20122	1K2 5% RC11 0805				
3909	4822 051 20821	820Ω 5% RC11 0805				
3910	4822 051 20821	820Ω 5% RC11 0805				
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3916	4822 051 20821	820Ω 5% RC11 0805				
3919	4822 051 20122	1K2 5% RC11 0805				
3920	4822 051 20122	1K2 5% RC11 0805				
3935	4822 051 20272	2K7 5% RC11 0805				
3936	4822 051 20272	2K7 5% RC11 0805				
3937	4822 051 20272	2K70 5% RC11 0805				
3938	4822 051 20272	2K7 5% RC11 0805				
3939	4822 051 20272	2K7 5% RC11 0805				
3941	4822 051 20223	22KΩ 5% RC11 0805				
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3964	4822 051 20331	330Ω 5% RC11 0805				
3965	4822 051 20331	330Ω 5% RC11 0805				
3967	4822 051 20473	47KΩ 5% RC11 0805				
3968	4822 051 20473	47KΩ 5% RC11 0805				
3971	4822 051 20221	220Ω 5% RC11 0805				
3972	4822 051 20153	15KΩ 5% RC11 0805				
3973	4822 051 20153	15KΩ 5% RC11 0805				
3975	4822 051 20221	220Ω 5% RC11 0805				
3977	4822 051 20221	220Ω 5% RC11 0805				

FRONT PART
22DC593/62L
22DC594/62F./62L



1901	C11	3964	F 1
1941	A 4	3965	G 1
1942	B 4	3967	G 7
1943	A 4	3968	F 7
1944	B 4	3971	E 1
1945	A 3	3972	E11
1946	B 3	3973	E11
1947	A 3	3975	F 2
1948	B 3	3977	G 2
1949	A 4	5961	E 6
1950	B 4	6901	A 5
1951	A 4	6902	A 5
1952	B 4	6903	B 5
1953	A 3	6904	A 6
1954	B 3	6905	A 6
1955	A 3	6906	B 6
1956	B 3	6907	A 8
1957	G 5	6908	A 8
1961	D10	6909	B 8
2961	E 7	6910	A 9
2962	E 7	6911	A 9
2963	F 6	6912	B 9
2966	F 5	6913	A10
2968	G 7	6914	A10
3901	B 5	6915	B10
3902	B 5	6916	A11
3905	B 6	6917	A11
3906	B 6	6925	G 8
3909	B 7	6961	F11
3910	B 8	6963	G 1
3912	B 9	6964	G 1
3913	B 9	7925	F 8
3915	B10	7926	F 7
3916	B10	7961	F 3
3919	B11		
3920	B11		
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3939	D 9		
3941	G 3		
3945	C 5		
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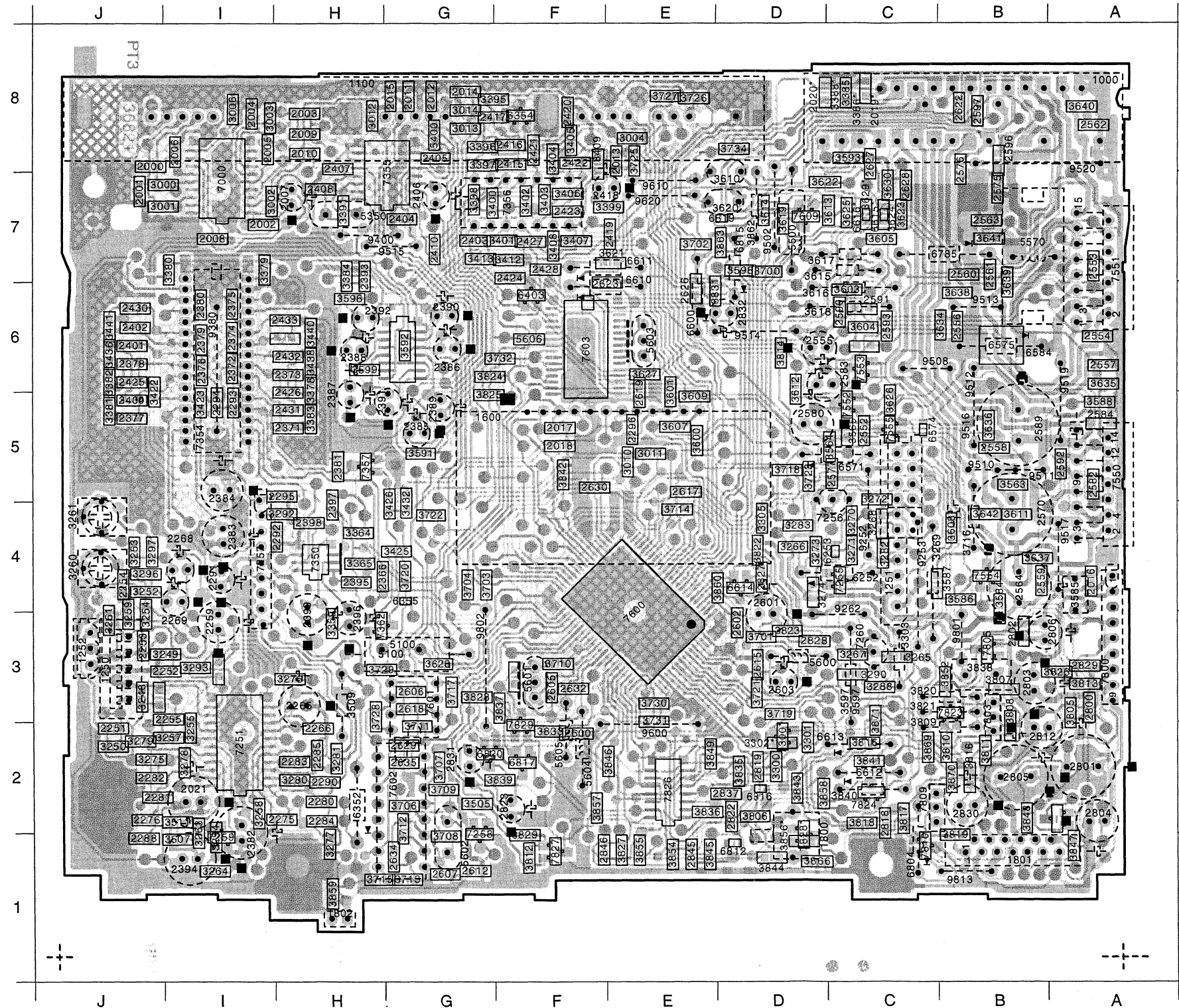
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ALIM-SENSE.....D11	DATA-RDS.....H10	HOLD.....B8/D9	LAMPE-ON/OFF.....D10	MULTIPATH.....D12	PAUSE.....D7	SCL-EXT.....L6	SOLENOID.....D10
BLEEP.....H9	DB+.....J17	HOLD2.....B8	LEVEL.....B12	MUTE.....H11	PLAY-SWITCH.....D9	SCLS.....H10/K11	TELEPHONE-MUTE.....H11
CONN-BLOCK-25.....L3	DB-.....K17	HOT-INFO.....H12	LOCK-DETECTOR.....H16	MUTE-SWITCH/ENABLE.....D10	REF-LEVEL.....A11	SDA.....B5	TELEPHONE-MUTE.....H3
CONN-BLOCK-26.....K3/I17	DOLBY-B/C.....H10	ILL-RHEOSTAT.....D12	MOTOR-CONTROL.....D10	NOISE-PULSE.....D10	RESET.....F16	SDA-EXT.....L6	TRACK-SWITCH.....D9
CONN-BLOCK-27.....L3	DOLBY-ON.....H10	INT_D2B.....D9	MRQ-EXT.....I15	OFF-STABIC.....H9	RESET-LATCH.....H8	SDAS.....H7/K11	



2013 C13	6614 B10
2014 C11	6615 K 6
2600 F 2	6819 H 1
2601 F 1	7600 F10
2602 G15	7601 B 1
2603 H15	7602 C16
2605 G 5	7603 L13
2606 B 1	7609 H 2
2615 F 2	9600 D 6
2617 F 3	9610 J16
2618 B14	9620 K16
2619 L15	
2622 H 1	
2623 J11	
2630 I13	
2632 E 6	
2634 D17	
2635 C15	
3004 C12	
3012 H13	
3013 B11	
3014 B11	
3600 L 6	
3601 L 5	
3607 L 6	
3609 L 5	
3610 J17	
3613 H 2	
3614 H 2	
3619 G 1	
3620 K17	
3621 K15	
3627 J13	
3628 H 9	
3700 G 2	
3701 G16	
3702 I17	
3703 A 5	
3704 A 5	
3706 B15	
3707 D15	
3709 C17	
3710 G 6	
3711 B15	
3712 D16	
3713 B17	
3714 F15	
3717 A 3	
3718 B 9	
3720 C 8	
3721 B10	
3725 C12	
3726 A 4	
3727 A 4	
3728 C 3	
3729 A 4	
3730 F 6	
3731 F 6	
3732 J11	
3734 K 5	
3824 H 7	
3825 I11	
3828 J 9	
3842 F15	
3846 H 8	
3860 C11	
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5604 D 6	
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5606 L16	
6600 I16	
6610 K16	
6611 L16	

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1100 G 8	2259 I 3	2387 H 5	2418 E 7	2803 B 3	3261 J 4	3618 C 6	5350 H 7	6352 H 2	6815 D 7	7800 A 3	9510 B 5	9597 C 3
1250 J 3	2265 H 3	2388 H 6	2555 D 6	2804 A 2	3269 C 4	3620 D 7	5500 D 7	6571 C 5	7256 C 5	7803 B 3	9511 B 5	9600 E 2
1251 C 4	2268 I 4	2389 G 5	2564 B 4	2805 B 2	3303 C 3	3716 B 4	5570 B 7	6584 B 6	7257 I 4	7809 C 2	9512 B 5	9610 E 7
1252 J 3	2269 I 4	2390 G 6	2570 B 4	2806 B 3	3509 H 3	3809 B 2	5600 D 3	6600 E 6	7260 C 3	9252 C 4	9513 B 6	9620 E 7
1600 F 5	2291 I 4	2391 G 5	2580 D 5	2812 B 2	3585 A 4	3820 B 3	5601 F 3	6610 E 6	7354 I 6	9253 C 4	9514 D 6	9801 B 3
1800 D 1	2382 I 2	2392 H 6	2583 D 6	2823 F 2	3597 C 3	3821 B 3	5602 G 1	6611 E 7	7356 F 7	9262 C 3	9515 G 7	9802 G 3
1801 B 1	2383 I 4	2394 I 1	2589 B 5	2830 B 2	3610 D 7	3838 B 3	5603 E 6	6612 C 2	7550 A 5	9380 I 6	9516 B 5	9813 B 1
1802 H 1	2384 I 5	2396 H 3	2601 D 3	2831 G 2	3615 C 7	3840 C 2	5604 F 2	6613 C 2	7551 A 7	9400 H 7	9517 A 4	
2007 H 7	2385 G 5	2399 H 3	2603 D 3	2832 D 6	3616 C 6	3862 D 7	5605 F 2	6785 B 7	7601 G 3	9502 D 7	9519 A 5	

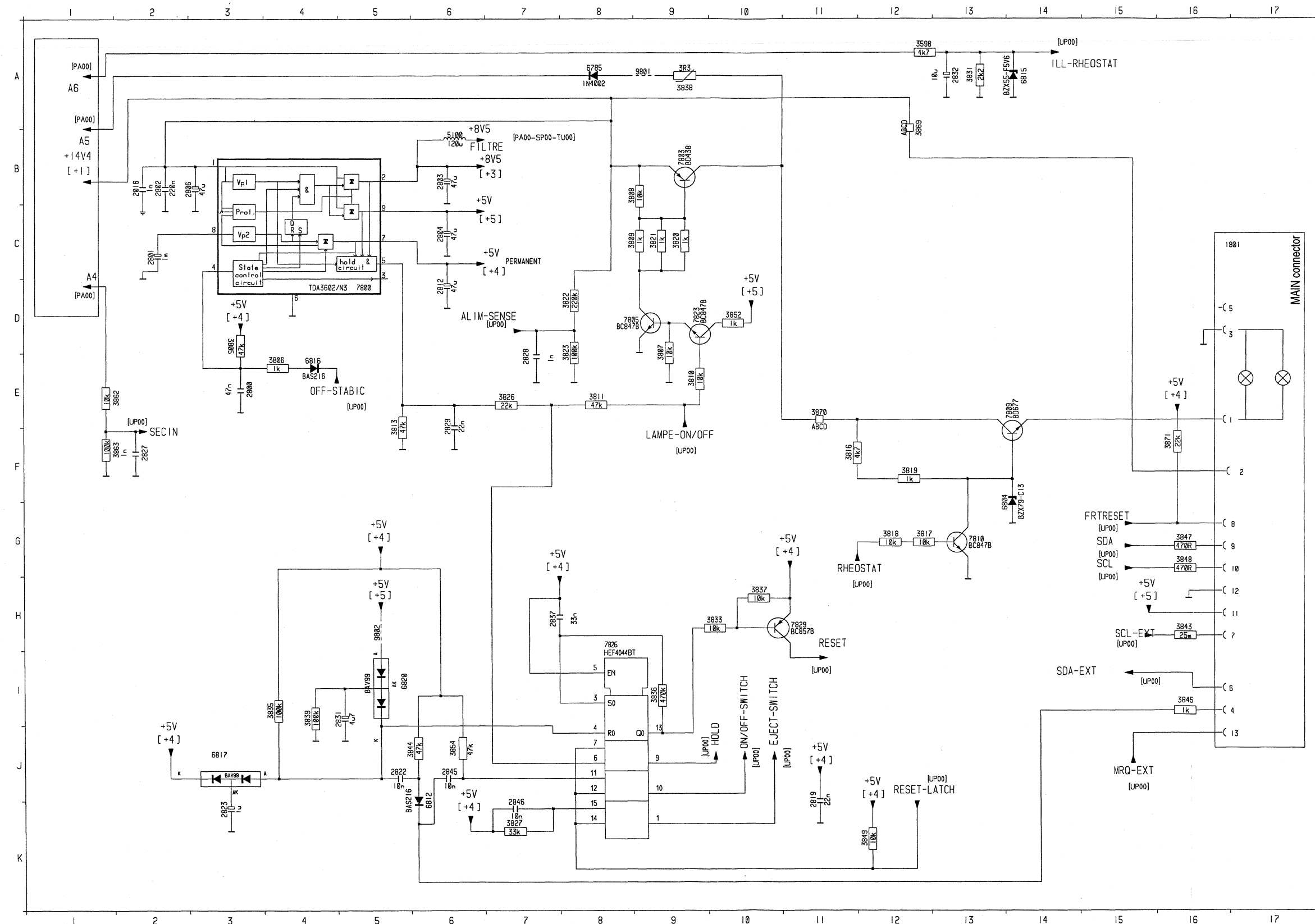
22DC593/62L
22DC594/62F
22DC594/62L



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2001 J 7	2428 F 7	3257 I 2	3507 I 1	3734 D 8	7552 C 5
2002 I 7	2430 J 6	3258 I 2	3511 I 2	3805 A 3	7553 C 6
2003 H 8	2431 H 5	3259 J 3	3563 B 5	3806 D 2	7554 B 4
2004 I 8	2432 H 6	3263 I 1	3564 C 5	3807 B 3	7555 C 5
2005 I 8	2433 H 6	3264 I 1	3565 C 5	3808 B 2	7600 E 3
2006 I 8	2552 C 5	3265 C 3	3584 B 4	3810 B 2	7603 F 6
2008 I 7	2553 A 7	3266 D 4	3586 B 4	3811 B 2	7609 D 7
2009 H 8	2554 A 6	3267 C 3	3587 C 4	3812 F 1	7805 B 3
2010 H 8	2556 B 6	3268 C 4	3588 A 5	3813 A 3	7810 C 1
2011 G 8	2557 A 6	3270 C 4	3591 G 5	3814 D 6	7823 B 3
2012 G 8	2558 B 5	3271 C 4	3592 G 6	3815 C 2	7824 C 2
2013 E 8	2559 B 4	3272 C 5	3593 C 8	3816 B 2	7826 E 2
2014 G 8	2560 B 7	3273 D 4	3596 H 6	3817 C 2	7827 F 1
2015 G 8	2561 B 7	3274 D 4	3598 D 7	3818 C 2	7828 D 1
2016 A 4	2562 A 8	3275 J 2	3599 H 6	3819 B 1	7829 F 2
2017 F 5	2563 B 7	3276 H 3	3600 E 5	3822 D 4	
2018 F 5	2575 B 7	3277 H 1	3601 E 6	3823 D 3	
2019 C 8	2576 B 8	3278 I 2	3603 C 6	3824 G 6	
2020 D 8	2577 C 5	3279 J 2	3604 C 6	3825 G 5	
2251 J 2	2582 A 5	3280 H 2	3605 C 7	3826 A 3	
2252 I 3	2584 A 5	3281 H 2	3607 E 5	3827 E 1	
2253 J 3	2590 C 6	3282 C 4	3608 B 4	3828 G 3	
2254 J 4	2591 C 6	3283 D 4	3609 E 5	3829 F 1	
2255 I 3	2592 A 5	3288 C 3	3611 B 4	3831 E 6	
2266 H 2	2593 C 6	3290 C 3	3612 D 6	3833 F 2	
2275 H 2	2596 B 8	3292 H 4	3613 C 7	3835 D 2	
2276 J 2	2597 B 8	3293 I 3	3614 D 7	3836 E 2	
2280 H 2	2600 F 2	3294 I 1	3619 D 7	3837 F 3	
2281 J 2	2602 D 3	3296 J 4	3621 E 7	3839 F 2	
2282 J 2	2605 F 3	3297 J 4	3622 D 7	3841 C 2	
2283 H 2	2606 G 3	3300 D 2	3623 C 7	3842 F 5	
2284 H 2	2607 G 1	3301 D 2	3624 C 7	3843 D 2	
2285 H 2	2612 G 1	3302 D 2	3625 C 7	3844 D 1	
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2290 H 2	2617 E 5	3359 H 3	3627 E 6	3846 E 2	
2292 H 4	2618 G 3	3364 H 4	3628 G 3	3847 A 1	
2293 I 5	2619 E 5	3365 H 4	3629 C 7	3848 B 2	
2294 I 5	2622 B 8	3378 H 6	3630 C 7	3849 E 2	
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2366 H 4	2627 C 8	3381 J 5	3636 B 5	3855 E 1	
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2373 H 6	2630 F 5	3383 H 5	3639 B 6	3858 D 2	
2374 I 6	2632 F 3	3384 H 7	3640 A 8	3859 H 1	
2375 I 6	2634 G 1	3385 C 8	3641 B 7	3860 D 4	
2376 I 6	2635 G 2	3386 C 8	3642 B 4	3863 D 7	
2377 J 5	2800 A 3	3388 D 8	3700 D 7	3866 D 1	
2378 J 6	2802 B 3	3391 H 7	3701 D 3	3869 C 2	
2379 I 6	2818 C 2	3395 F 8	3702 E 7	3870 B 2	
2380 I 6	2819 D 2	3396 G 8	3703 G 4	3871 C 3	
2381 H 5	2822 D 2	3397 G 8	3704 G 4	5400 G 8	
2393 H 7	2827 D 4	3398 G 7	3706 G 2	5606 F 6	
2395 H 4	2828 D 3	3399 E 7	3707 G 2	6253 C 4	
2397 H 4	2829 A 3	3400 G 7	3708 G 1	6354 F 8	
2398 H 4	2837 D 2	3401 F 7	3709 G 2	6355 G 4	
2400 J 5	2845 E 1	3402 F 7	3710 F 3	6403 F 6	
2401 J 6	2846 F 1	3403 F 7	3711 G 2	6574 C 5	
2402 J 6	3000 I 7	3404 F 8	3712 G 2	6575 B 6	
2403 G 7	3001 I 7	3405 F 8	3713 G 1	6614 D 4	
2404 G 7	3002 I 7	3406 F 7	3714 E 4	6615 C 7	
2405 G 8	3003 I 8	3407 F 7	3715 H 1		

A4	D1	FRTRESET	G15	ON/OFF-SWITCH	J10	SDA	G15
A5	A1	HOLD	J10	RESET	I11	SDA-EXT	I15
A6	A1	ILL-RHEOSTAT	A14	RESET-LATCH	J12	SECIN	F2
ALIM-SENSE	D7	LAMPE-ON/OFF	E9	RHEOSTAT	G11		
EJECT-SWITCH	J10	MRQ-EXT	J15	SCL	G15		
FILTRE	B6	OFF-STABIC	E4	SCL-EXT	H15		

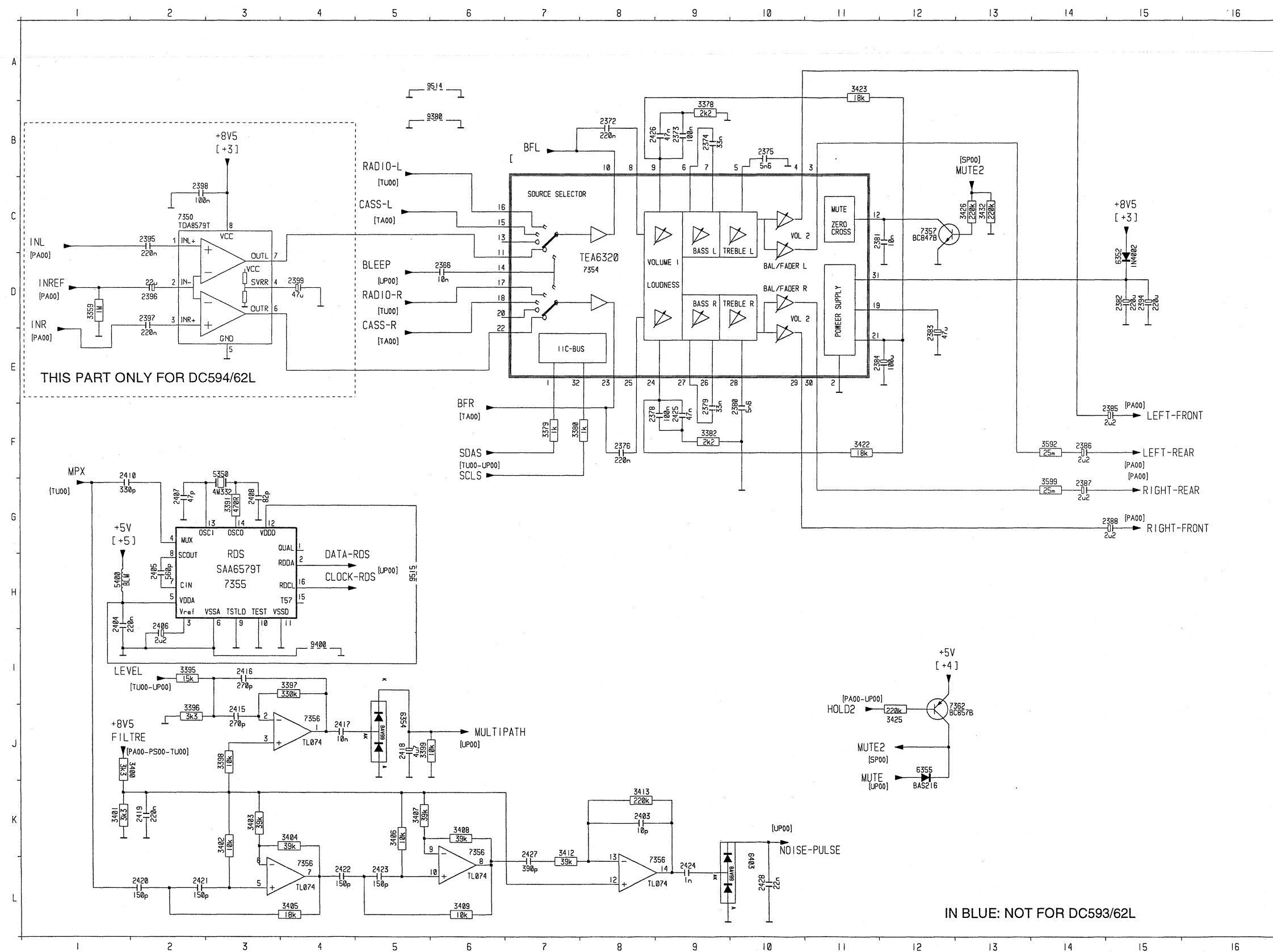
POWER SUPPLY PART 22DC593/62L 22DC594/62F./62L



1801	I16	7809	E14
2016	B 2	7810	G13
2800	E 3	7823	D 9
2801	C 2	7826	H 8
2802	B 2	7829	H11
2803	B 6	9801	A 9
2804	C 6	9802	H 5
2806	B 3		
2812	D 6		
2819	J11		
2822	J 5		
2823	K 3		
2827	F 2		
2828	E 7		
2829	E 6		
2831	I 5		
2832	A13		
2837	H 7		
2845	J 6		
2846	K 7		
3598	A12		
3805	D 3		
3806	E 4		
3807	D 9		
3808	B 9		
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3821	C 9		
3822	D 8		
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3826	E 7		
3827	K 7		
3831	A13		
3833	H10		
3835	I 4		
3836	I 9		
3837	H10		
3838	A 9		
3839	I 4		
3843	H16		
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3847	G16		
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5100	B 6		
6785	A 8		
6804	G14		
6812	J 6		
6815	A14		
6816	E 4		
6817	J 3		
6820	I 5		
7800	D 5		
7803	B 9		
7805	D 9		

BFL.....B7	DATA-RDS.....H4	LEFT-REAR.....F15	NOISE-PULSE.....K10	SDAS.....F6
BFR.....E6	HOLD2.....I11	LEVEL.....I2	RADIO-L.....B5	
BLEEP.....D5	INL.....C1	MPX.....F1	RADIO-R.....D5	
CASS-L.....C5	INR.....D1	MULTIPATH.....J6	RIGHT-FRONT.....F15	
CASS-R.....D5	INREF.....D1	MUTE.....J12	RIGHT-REAR.....G15	
CLOCK-RDS.....H4	LEFT-FRONT.....E15	MUTE2.....J12/C13	SCLS.....F6	

SOUND PROCESSING PART **22DC593/62F./62L** **22DC594/62F./62L**

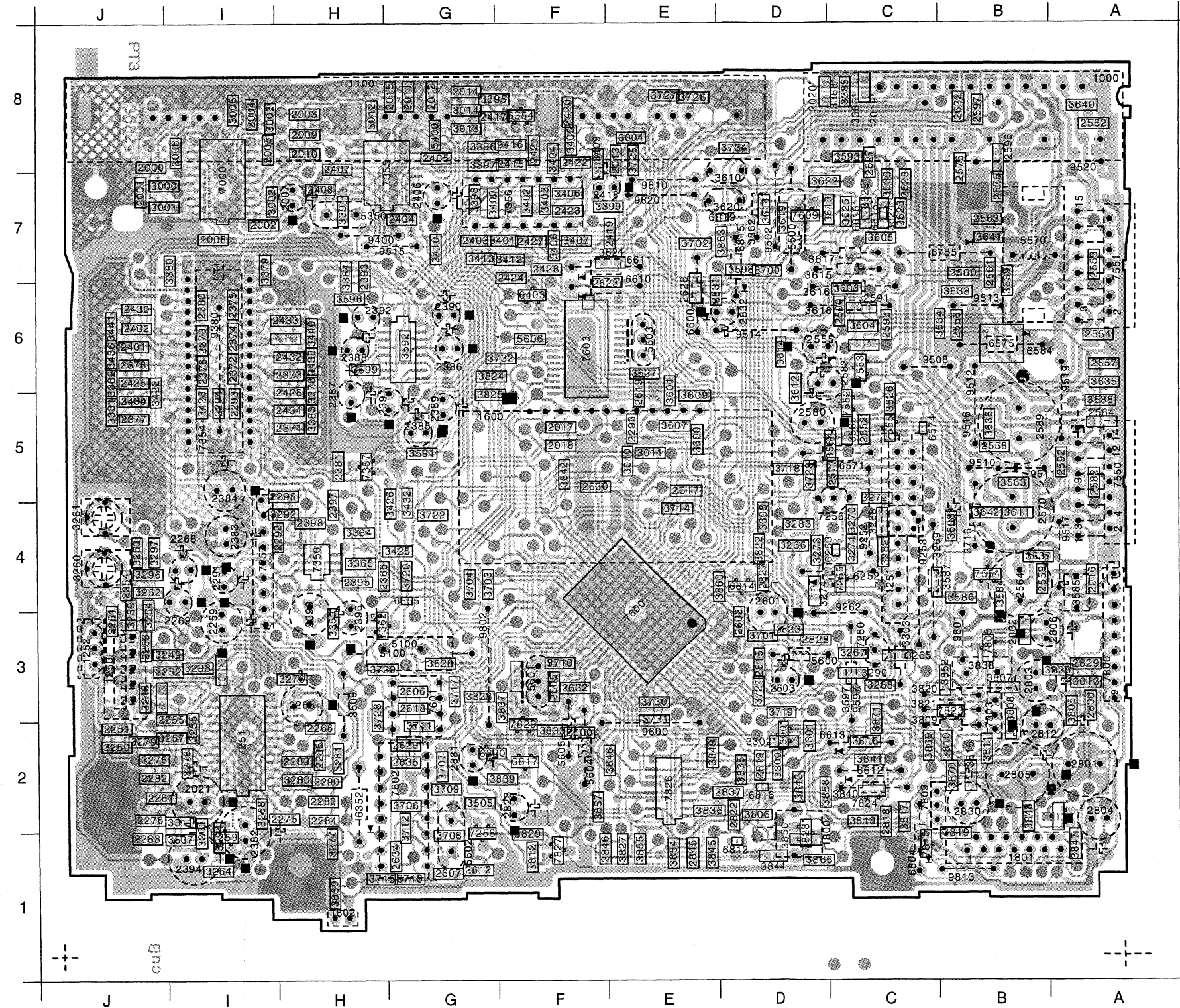


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2372	A 9	6352	C16
2373	B10	6354	J 5
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2375	B11	6403	K10
2376	F 9	7350	C 3
2378	F 9	7354	D 9
2379	E10	7355	H 3
2380	E11	7356	L 4
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2384	E12	7357	C14
2385	F16	7362	I11
2386	I15	9380	B 7
2387	L15	9400	I 4
2388	F16	9514	A 7
2394	D16	9515	H 5
2395	C 3		
2396	D 3		
2397	D 3		
2398	B 3		
2399	D 5		
2403	K 8		
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2407	G 2		
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3412	K 7		
3413	K 8		
3422	F12		
3423	A12		
3425	J11		
3426	C14		
3432	C15		
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3599	L14		
5350	F 3		

IN BLUE: NOT FOR DC593/62L

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1100 G 8	2259 I 3	2387 H 5	2418 E 7	2803 B 3	3261 J 4	3618 C 6	5350 H 7	6352 H 2	6815 D 7	7800 A 3	9510 B 5	9597 C 3
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1251 C 4	2268 I 4	2389 G 5	2564 B 4	2805 B 2	3303 C 3	3716 B 4	5570 B 7	6584 B 6	7257 I 4	7809 C 2	9512 B 5	9610 E 7
1252 J 3	2269 I 4	2390 G 6	2570 B 4	2806 B 3	3509 H 3	3809 B 2	5600 D 3	6600 E 6	7260 C 3	9252 C 4	9513 B 6	9620 E 7
1600 F 5	2291 I 4	2391 G 5	2580 D 5	2812 B 2	3585 A 4	3820 B 3	5601 F 3	6610 E 6	7354 I 6	9253 C 4	9514 D 6	9801 B 3
1800 D 1	2382 I 2	2392 H 6	2583 D 6	2823 F 2	3597 C 3	3821 B 3	5602 G 1	6611 E 7	7356 F 7	9262 C 3	9515 G 7	9802 G 3
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1802 H 1	2384 I 5	2396 H 3	2601 D 3	2831 G 2	3615 C 7	3840 C 2	5604 F 2	6613 C 2	7551 A 7	9400 H 7	9517 A 4	
2007 H 7	2385 G 5	2399 H 3	2603 D 3	2832 D 6	3616 C 6	3862 D 7	5605 F 2	6785 B 7	7601 G 3	9502 D 7	9519 A 5	

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22DC594/62L



2000 J 8	2427 F 7	3255 I 2	3505 G 2	3732 F 6	7362 H 3
2001 J 7	2428 F 7	3257 I 2	3507 I 1	3734 D 8	7552 C 5
2002 I 7	2430 J 6	3258 I 2	3511 I 2	3805 A 3	7553 C 6
2003 H 8	2431 H 5	3259 J 3	3563 B 3	3806 D 2	7554 B 4
2004 I 8	2432 H 6	3263 I 1	3564 C 5	3807 B 3	7555 C 5

2005 I 8	2433 H 6	3264 I 1	3565 C 5	3808 B 2	7600 E 3
2006 I 8	2552 C 5	3265 C 3	3584 B 4	3810 B 2	7603 F 6
2008 I 7	2553 A 7	3266 D 4	3586 B 4	3811 B 2	7609 D 7
2009 H 8	2554 A 6	3267 C 3	3587 C 4	3812 F 1	7805 B 3
2010 H 8	2556 B 6	3268 C 4	3588 A 5	3813 A 3	7810 C 1

2011 G 8	2557 A 6	3270 C 4	3591 G 5	3814 D 6	7823 B 3
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2013 E 8	2559 B 4	3272 C 5	3593 C 8	3816 B 2	7826 E 2
2014 G 8	2560 B 7	3273 D 4	3596 H 6	3817 C 2	7827 F 1
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2017 F 5	2563 B 7	3276 H 3	3600 E 5	3822 D 4	
2018 F 5	2575 B 7	3277 H 1	3601 E 6	3823 D 3	
2019 C 8	2576 B 8	3278 I 2	3603 C 6	3824 G 6	
2020 D 8	2577 C 5	3279 J 2	3604 C 6	3825 G 5	

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2401 J 6	2846 F 1	3403 F 7	3711 G 2	3871 C 3	
2402 J 6	3000 I 7	3404 F 8	3712 G 2	3871 C 3	

2403 G 7	3001 I 7	3405 F 8	3713 G 1	3871 C 3	
2404 G 7	3002 I 7	3406 F 7	3714 E 4	3871 C 3	
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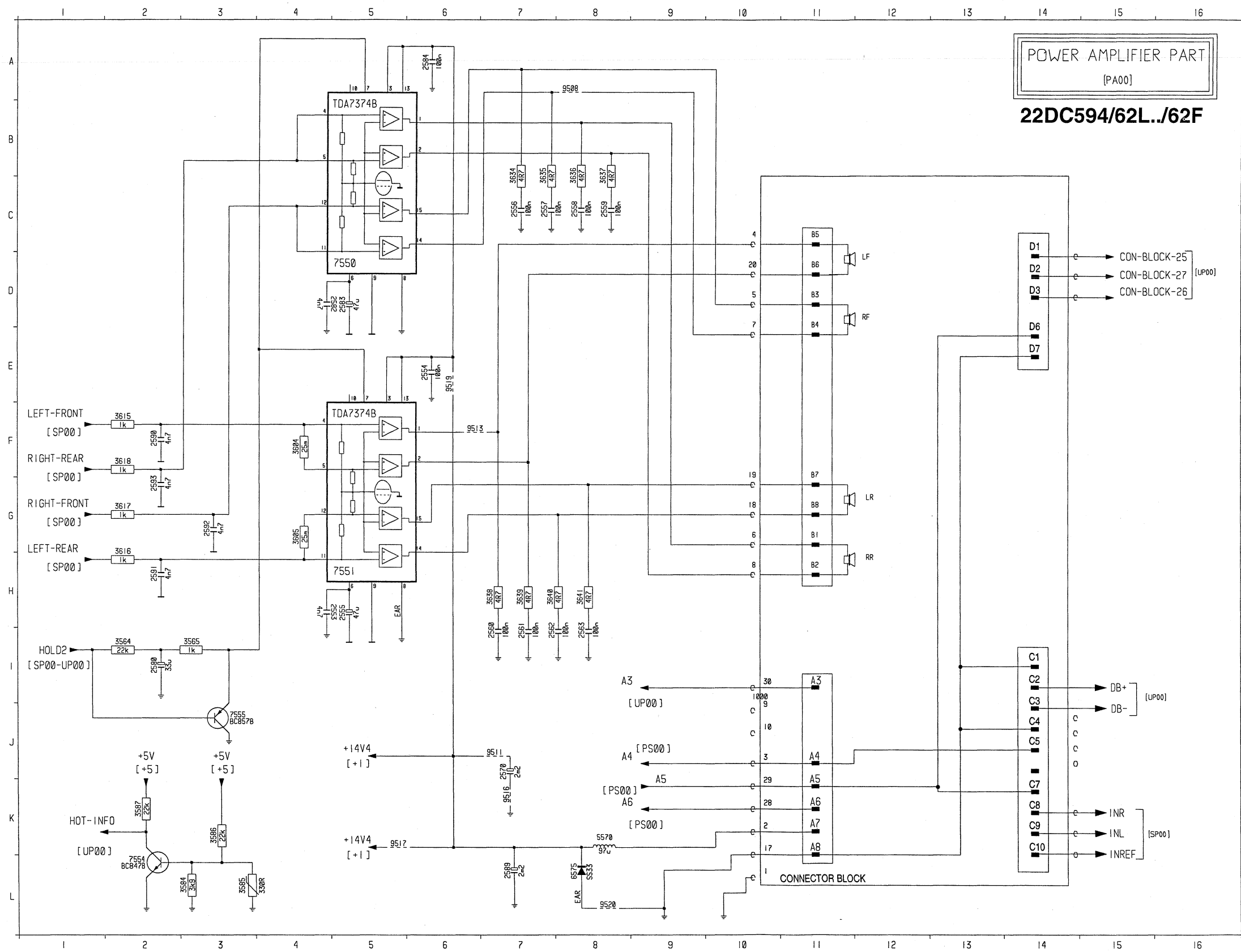
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2424 F 7	3252 J 4	3438 H 6	3729 H 3	7350 H 4	

2425 J 6	3253 J 4	3440 H 6	3730 E 3	7355 G 7	
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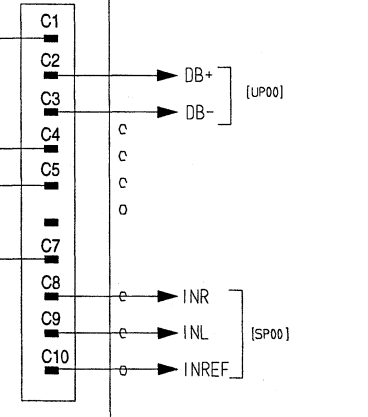
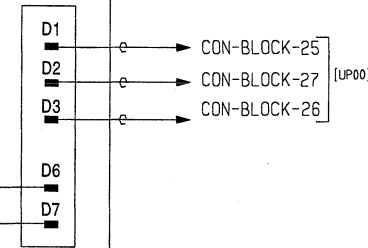
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	2268	B 4
	2269	I 4
C	2275	J 8
	2276	C 9
	2280	I 9
	2281	B 8
	2282	C 9
D	2283	H 8
	2284	D 8
	2285	I 8
	2288	C10
	2290	I 9
E	2291	L 3
	2292	L 4
	2293	K 2
	2294	K 2
	2295	L 2
F	3252	J 5
	3253	A 4
	3254	J 6
	3255	A 6
	3257	B 6
G	3258	H 7
	3259	J 6
	3260	J 5
	3261	A 5
	3263	A 2
H	3264	A 1
	3265	J13
	3266	K14
	3270	H16
	3271	K17
I	3273	K13
	3275	C 5
	3276	I 6
	3277	D12
	3278	C 9
J	3279	C 5
	3280	I 9
	3281	I 5
	3288	I13
	3290	I14
K	3292	L 3
	3293	D 4
	3296	J 5
	3297	B 5
	3300	I14
L	3302	K15
	3303	H1
	3505	D13
	3507	B 3
	3509	A 9
M	3723	H11
	6253	L13
	7251	F 4
	7255	L16
	7256	H15
N	7257	K 3
	7258	D12
	7259	A 2
	7260	J13
	9252	J11
O	9253	J12



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2554	E 6
2555	H 5
2556	C 7
2557	C 7
2558	C 8
2559	C 8
2560	I 7
2561	I 7
2562	I 7
2563	I 8
2570	J 7
2580	I 2
2582	D 5
2583	D 5
2584	A 6
2589	L 7
2590	F 2
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2593	G 2
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3565	I 3
3584	L 3
3585	L 3
3586	K 3
3587	K 2
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3638	H 7
3639	H 7
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3641	H 8
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7551	H 5
7554	L 2
7555	J 3
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POWER AMPLIFIER PART
[PA00]

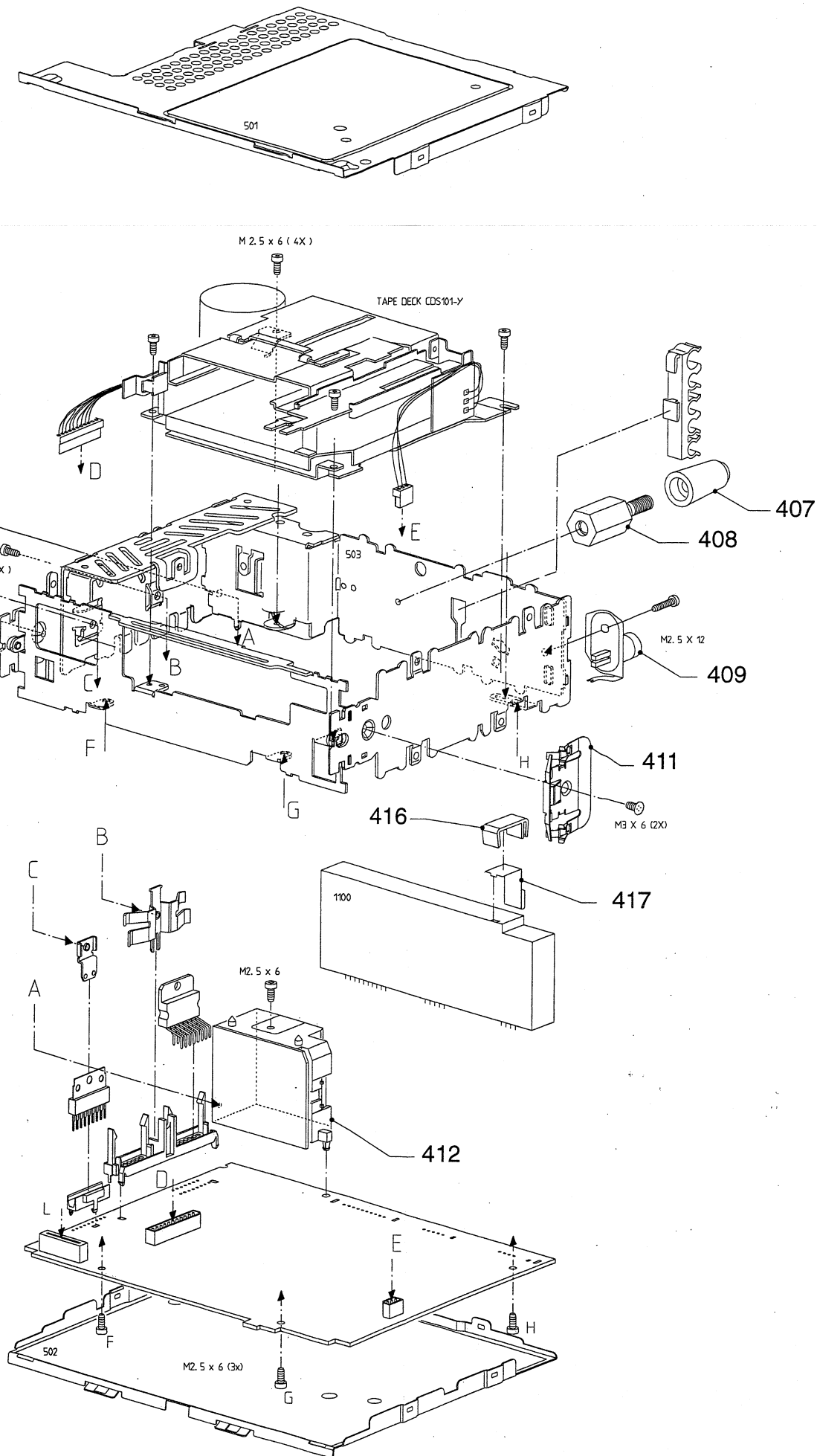
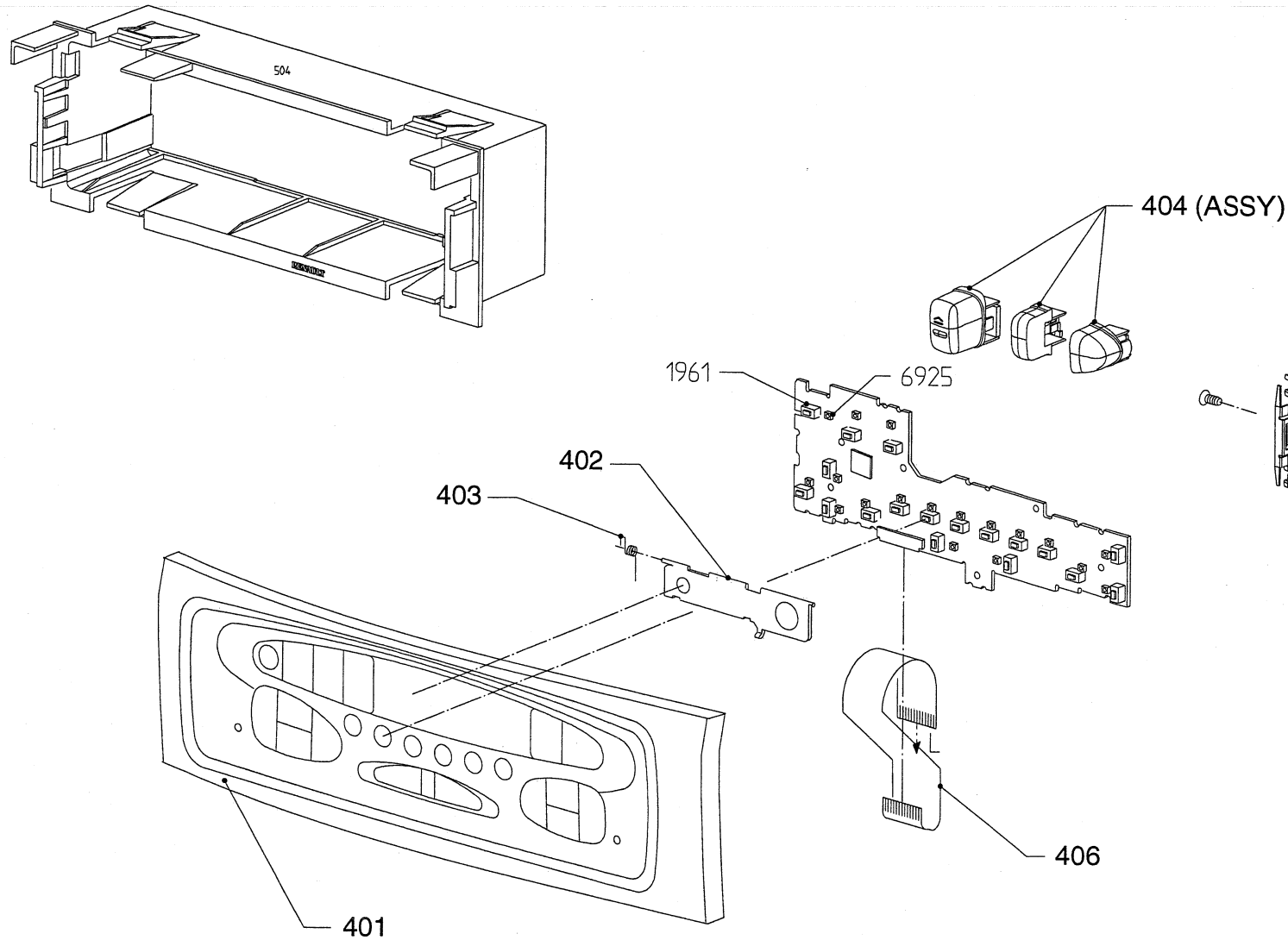
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

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
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22DC593/62L



401	4822 459 04183	ORNAMENTAL PLATE for DC594/62F.	408	4822 462 72016	METAL SPACER
401	4822 459 04184	ORNAMENTAL PLATE for DC594/62L	409	4822 267 31702	AERIAL BUSH ASSY
401	4822 459 04245	ORNAMENTAL PLATE for DC593/62L	411	4822 492 71523	MOUNTING SPRING
402	4822 443 10316	FLAP CASS PRINTED for DC594/62F/62L	412	4822 264 10321	CONNECTOR BLOCK for DC594/62F
402	4822 443 10386	FLAP CASS PRINTED for DC593/62L	412	4822 265 10613	CONNECTOR BLOCK for DC594/62L
403	4822 492 71033	FLAP SPRING	412	4822 265 10663	CONNECTOR BLOCK for DC593/62L
404	4822 410 63652	SET OF BUTTONS DECK	416	4822 404 21276	HOOK IC91
406	4822 466 10681	FOIL FLEX	417	4822 492 71412	SPRING GROUNDING
407	4822 532 12177	SPACER			

Miscellaneous					
1100	4822 210 10705	MODULE TUNER IC91	2415	4822 122 33216	270P 50V NP0 0805
	2011	5322 122 34098	2416	4822 122 33216	270P 50V NP0 0805
	2012	5322 122 34098	2417	5322 122 34098	10nF 10% X7R 63V
	2013	5322 126 10223	2418	4822 124 80765	4.7μF 20% 35V
	2014	5322 126 10223	2419	4822 126 13849	220nF 10% 16V X7R 0805
	2015	5322 122 34123	2420	5322 122 33538	150pF 2% NP0 63V
	2016	5322 122 34123	2421	5322 122 33538	150pF 2% NP0 63V
	2252	5322 126 10184	2422	5322 122 33538	150pF 2% NP0 63V
	2253	5322 126 10184	2423	5322 122 33538	150pF 2% NP0 63V
	2254	5322 122 34098	2424	5322 122 34123	1nF 10% X7R 50V
	2255	5322 122 34098	2425	4822 126 13343	47nF 10% X7R 25V
	2259	4822 124 80453	2426	4822 126 13343	47nF 10% X7R 25V
	2265	4822 124 80453	2427	4822 122 32636	390pF 5% SL 50V
	2266	5322 122 32654	2428	5322 122 32654	22nF 10% X7R 63V
	2268	4822 124 41017	2553	5322 126 10223	4.7nF 10% X7R 63V
	2269	4822 124 41017	2554	4822 122 33496	100nF 10% X7R 63V
	2275	5322 126 10223	2555	5322 124 41938	47μF 6V3
	2276	4822 126 13196	2556	4822 126 13196	100nF 25V 10% X7R 0805
	2280	4822 126 13196	2557	4822 126 13196	100nF 25V 10% X7R 0805
	2281	5322 126 10223	2558	4822 126 13196	100nF 25V 10% X7R 0805
	2282	4822 126 13196	2559	4822 126 13196	100nF 25V 10% X7R 0805
	2283	4822 126 13188	2560	4822 126 13196	100nF 10% X7R 25V
	2284	4822 126 13188	2561	4822 126 13196	100nF 10% X7R 25V
	2285	4822 126 13196	2562	4822 126 13196	100nF 10% X7R 25V
	2288	4822 126 13849	2563	4822 126 13196	100nF 10% X7R 25V
	2290	4822 126 13849	2570	4822 124 80769	2200μF 20% 16V
	2291	4822 124 23504	2580	4822 124 23281	33μF 20% 16V
	2292	4822 126 13343	2582	5322 126 10223	4.7nF 10% 50V X7R
	2293	5322 126 10223	2583	5322 124 41938	47μF 20% 6V3
	2294	5322 126 10223	2584	4822 122 33496	100nF 10% 50V X7R 1206
	2295	4822 126 13392	2589	4822 124 80769	2200U 20% 16V
	2366	5322 122 34098	2590	5322 126 10223	4.7nF 10% X7R 63V
	2372	4822 126 13849	2591	5322 126 10223	4.7nF 10% X7R 63V
	2373	4822 126 13196	2592	5322 126 10223	4.7nF 10% X7R 63V
	2374	4822 122 33342	2593	5322 126 10223	4.7nF 10% X7R 63V
	2375	4822 122 32646	2600	5322 122 32654	22nF 10% X7R 63V
	2376	4822 126 13849	2601	4822 124 22646	47μF 20% 16V
	2378	4822 126 13196	2602	4822 126 13196	100nF 10% X7R 25V
	2379	4822 122 33342	2603	4822 124 41017	10μF 16V
	2380	4822 122 32646	2605	5322 122 32658	22pF 5% 50V
	2381	5322 122 34098	2606	4822 126 13196	100nF 10% X7R 25V
	2382	4822 124 23582	2615	4822 122 33342	33nF 10% X7R 63V
	2383	4822 124 22646	2617	4822 122 33342	33nF 10% X7R 63V
	2384	4822 124 80453	2618	5322 122 32654	22nF 10% X7R 63V
	2385	4822 124 23504	2622	5322 122 34123	1nF 10% X7R 50V
	2386	4822 124 23504	2630	5322 122 34123	1nF 10% X7R 50V
	2387	4822 124 23504	2632	5322 122 32268	470pF 10% 50V
	2388	4822 124 23504	2634	5322 122 32531	100pF 5% NP0 50V
	2394	4822 124 23582	2635	5322 126 10223	4.7nF 10% X7R 63V
	2403	5322 122 32448	2800	4822 126 13343	47nF 10% X7R 25V
	2404	4822 126 13849	2801	4822 124 80766	1000μF 20% 25V
	2405	5322 116 80853	2802	4822 126 13849	220nF 10% 16V X7R 0805
	2406	4822 124 23504	2803	4822 124 22646	47μF 20% 16V
	2407	5322 122 32452	2804	4822 124 22646	47μF 20% 16V
	2408	4822 122 33515	2806	4822 124 11562	47μF 20% 35V
	2410	5322 122 31863	2812	4822 124 22646	47μF 20% 16V
			2819	5322 122 32654	22nF 10% X7R 63V
			2822	5322 122 34098	10nF 10% X7R 63V
			2823	4822 124 23282	1μF 20% 50V
			2827	5322 122 34123	1nF 10% X7R 50V

					
2828	5322 122 34123	1nF 10% X7R 50V	3406	4822 117 10833	10KΩ 1% 0,1W
2829	5322 122 32654	22nF 10% X7R 63V	3407	4822 051 20393	39KΩ 5% 0,1W
2831	4822 124 80765	4.7μF 20% 35V	3408	4822 051 20393	39KΩ 5% 0,1W
2832	4822 124 41017	10μF 16V	3409	4822 117 10833	10KΩ 1% 0,1W
2837	4822 122 33342	33nF 10% X7R 63V	3412	4822 051 20393	39KΩ 5% 0,1W
2845	5322 122 34098	10nF 10% X7R 63V	3413	4822 051 20224	220KΩ 5% 0,1W
2846	5322 122 34098	10nF 10% X7R 63V	3422	4822 051 20183	18KΩ 5% RC11 0805
			3423	4822 051 20183	18KΩ 5% RC11 0805
			3425	4822 051 20224	220KΩ 5% 0,1W
			3426	4822 051 20224	220KΩ 5% 0,1W
3004	4822 051 20223	22KΩ 5% RC11 0805	3432	4822 051 20224	220KΩ 5% 0,1W
3012	4822 051 20102	1KΩ 5% 0,1W	3505	4822 051 20104	100KΩ 5% 0,1W
3013	4822 051 20273	27KΩ5% RC11 0805	3509	4822 116 52176	10Ω 5% 0,5W
3014	4822 051 20104	100KΩ 5% 0,1W	3564	4822 051 20223	22KΩ 5% 0,1W
3252	4822 051 20471	470Ω 5% 0,1W	3565	4822 051 20102	1KΩ 5% RC11 0805
3253	4822 051 20471	470Ω 5% 0,1W	3584	4822 051 20392	3K9 5% 0,1W
3254	4822 051 20334	330KΩ 5% 0,1W	3585	4822 116 40254	330Ω
3255	4822 051 20334	330KΩ 5% 0,1W	3586	4822 051 20223	22KΩ 5% 0,1W
3257	4822 051 20822	8K20 5% 0,1W	3587	4822 051 20223	22KΩ 5% 0,1W
3258	4822 051 20153	15KΩ 5% 0,1W	3592	4822 051 20008	0Ω JUMP. (0805)
3259	4822 051 20822	8K20 5% 0,1W	3598	4822 051 20472	4K70 5% 0,1W
3260	4822 100 11681	CAR LIN 1KΩ	3599	4822 051 20008	0Ω JUMP. (0805)
3261	4822 100 11681	CAR LIN 1KΩ	3600	4822 051 20008	0Ω JUMP. (0805)
3263	4822 051 20183	18KΩ 5% 0,1W	3601	4822 051 20008	0Ω JUMP. (0805)
3264	4822 051 20473	47KΩ 5% 0,1W	3604	4822 051 20008	0Ω JUMP. (0805)
3265	4822 051 20008	0Ω JUMP. (0805)	3605	4822 051 20008	0Ω JUMP. (0805)
3266	4822 051 20008	0Ω JUMP. (0805)	3607	4822 051 20008	0Ω JUMP. (0805)
3270	4822 051 20472	4K70 5% 0,1W	3609	4822 051 20008	0Ω JUMP. (0805)
3271	4822 051 20102	1KΩ 5% 0,1W	3613	4822 051 20333	33KΩ 5% 0,1W
3273	4822 051 20008	0Ω JUMP. (0805)	3614	4822 051 20104	100KΩ 5% 0,1W
3275	4822 051 20184	180KΩ 5% 0,1W	3615	4822 116 83863	1KΩ 5% 0,5W
3276	4822 117 10507	24KΩ 1% 0.1W	3616	4822 116 83863	1KΩ 5% 0,5W
3277	4822 117 11139	1K5 1% 0,1W	3617	4822 116 83863	1KΩ 5% 0,5W
3278	4822 051 20274	270KΩ 5% 0,1W	3618	4822 116 83863	1KΩ 5% 0,5W
3279	4822 117 10507	24KΩ 1% 0.1W	3619	4822 117 11449	2K2 1% 0,1W
3280	4822 051 20274	270KΩ 5% 0,1W	3628	4822 051 20008	0Ω JUMP. (0805)
3281	4822 051 20184	180KΩ 5% 0,1W	3634	4822 051 20478	4Ω7 5% RC11 0805
3288	4822 051 20471	470Ω 5% 0,1W	3635	4822 051 20478	4Ω7 5% RC11 0805
3290	4822 051 20102	1KΩ 5% 0,1W	3636	4822 051 20478	4Ω7 5% RC11 0805
3292	4822 051 20334	330KΩ 5% 0,1W	3637	4822 051 20478	4Ω7 5% RC11 0805
3293	4822 051 20008	0Ω JUMP. (0805)	3638	4822 051 20478	4R7 5% RC11 0805
3300	4822 051 20473	47KΩ 5% 0,1W	3639	4822 051 20478	4R7 5% RC11 0805
3302	4822 051 20008	0Ω JUMP. (0805)	3640	4822 051 20478	4R7 5% RC11 0805
3303	4822 117 10179	2Ω2 5% 0,5W	3641	4822 051 20478	4R7 5% RC11 0805
3378	4822 117 11449	2K2 1% 0,1W	3700	4822 117 10833	10KΩ 1% 0,1W
3379	4822 051 20102	1KΩ 5% 0,1W	3701	4822 051 20101	100Ω 5% 0,1W
3380	4822 051 20102	1KΩ 5% 0,1W	3702	4822 051 20331	330R 5% RC11 0805
3382	4822 117 11449	2K2 1% 0,1W	3703	4822 117 10833	10KΩ 1% 0,1W
3391	4822 051 20471	470Ω 5% 0,1W	3704	4822 117 10833	10KΩ 1% 0,1W
3395	4822 051 20153	15KΩ5% RC11 0805	3706	4822 051 20008	0Ω JUMP. (0805)
3396	4822 051 20332	3K3 5% RC11 0805	3707	4822 051 20008	0Ω JUMP. (0805)
3397	4822 051 20334	330KΩ5% RC11 0805	3709	4822 051 20153	15KΩ 5% 0,1W
3398	4822 117 10833	10KΩ 1% 0,1W	3710	4822 051 20471	470Ω 5% 0,1W
3399	4822 117 10833	10KΩ 1% 0,1W	3711	4822 051 20153	15KΩ 5% 0,1W
3400	4822 051 20332	3K3 5% 0,1W	3712	4822 051 20008	0Ω JUMP. (0805)
3401	4822 051 20332	3K3 5% 0,1W	3713	4822 051 20473	47KΩ 5% 0,1W
3402	4822 117 10833	10KΩ 1% 0,1W	3714	4822 051 20473	47KΩ 5% 0,1W
3403	4822 051 20393	39KΩ 5% 0,1W	3717	4822 117 10833	10KΩ 1% 0,1W
3404	4822 051 20393	39KΩ 5% 0,1W	3718	4822 051 20472	4K70 5% 0,1W
3405	4822 051 20183	18KΩ 5% 0,1W	3720	4822 051 20102	1KΩ 5% 0,1W

					
3721	4822 051 20153	15KΩ 5% 0,1W	5600	4822 157 52983	22UH 10%
3723	4822 051 20008	0R05 JUMPER 0805	5601	4822 242 81959	CST11.5MTW
3725	4822 051 20104	100KΩ 5% 0,1W	5603	4822 242 81002	CST6,00MGW-TF01
3726	4822 051 20101	100Ω 5% 0,1W	5604	4822 157 60122	
3727	4822 051 20101	100Ω 5% 0,1W	5605	4822 157 60122	
3728	4822 117 10833	10KΩ 1% 0,1W			
3729	4822 117 10833	10KΩ 1% 0,1W			
3730	4822 051 20153	15KΩ 5% 0,1W	6253	4822 130 83757	DIODE BAS16
3731	4822 051 20473	47KΩ 5% 0,1W	6352	5322 130 30684	1N4002GPE
3734	4822 051 20153	15KΩ 5% RC11 0805	6354	5322 130 34337	BAV99
3805	4822 051 20473	47KΩ 5% 0,1W	6355	4822 130 83757	DIODE BAS216
3806	4822 051 20102	1KΩ 5% 0,1W	6403	5322 130 34337	BAV99
3807	4822 117 10833	10KΩ 1% 0,1W	6575	4822 130 10488	SM DIO S3G
3808	4822 117 10833	10KΩ 1% 0,1W	6600	4822 130 34173	ZENER BZX55-F5V6
3809	4822 116 83863	1KΩ 5% 0,5W	6614	5322 130 34331	BAV70
3810	4822 117 10833	10KΩ 1% 0,1W	6615	4822 130 83757	DIODE BAS216
3811	4822 051 20473	47KΩ 5% 0,1W	6785	5322 130 30684	1N4002GPE
3813	4822 051 20473	47KΩ 5% 0,1W	6804	4822 130 34195	BZX79-C13
3816	4822 051 20472	4K70 5% 0,1W	6812	4822 130 83757	DIODE BAS216
3817	4822 117 10833	10KΩ 1% 0,1W	6815	4822 130 34173	BZX55-F5V6
3818	4822 117 10833	10KΩ 1% 0,1W	6816	4822 130 83757	DIODE BAS216
3819	4822 051 20102	1KΩ 5% 0,1W	6817	5322 130 34337	BAV99
3820	4822 116 83863	1KΩ 5% 0,5W	6818	5322 130 34331	BAV70
3821	4822 116 83863	1KΩ 5% 0,5W	6819	4822 130 83757	DIODE BAS216
3822	4822 051 20224	220KΩ 5% 0,1W	6820	5322 130 34337	BAV99
3823	4822 051 20104	100KΩ 5% 0,1W			
3824	4822 117 10833	10KΩ 1% 0,1W			
3825	4822 117 10833	10KΩ 1% 0,1W	7251	4822 209 32744	TEA0675T/V1
3826	4822 051 20223	22KΩ 5% 0,1W	7255	4822 130 60511	BC847B
3827	4822 051 20333	33KΩ 5% 0,1W	7256	5322 130 61677	BC875
3828	4822 117 10833	10KΩ 1% 0,1W	7257	4822 209 83159	LA2000
3831	4822 117 11449	2K2 1% 0,1W	7258	4822 130 60511	BC847B
3833	4822 117 10833	10KΩ 1% 0,1W	7259	4822 130 60511	BC847B
3835	4822 051 20104	100KΩ 5% 0,1W	7260	4822 130 44283	BC636
3836	4822 051 20474	470KΩ 5% 0,1W	7354	4822 209 32745	TEA6320/V1
3837	4822 117 10833	10KΩ 1% 0,1W	7355	4822 209 31981	SAA6579T/V1
3838	4822 116 40267	3R3 25% 20V	7356	4822 209 32742	TL074IN
3839	4822 051 20104	100KΩ 5% 0,1W	7357	4822 130 60511	BC847B
3842	4822 117 10833	10KΩ 1% 0,1W	7362	5322 130 60508	BC857B
3843	4822 051 20008	0R05 JUMPER 0805	7550	4822 209 90404	TDA7374B
3844	4822 051 20473	47KΩ 5% 0,1W	7551	4822 209 31132	TDA7374V
3845	4822 051 20102	1KΩ 5% 0,1W	7551	4822 209 90404	TDA7374B
3846	4822 051 20102	1KΩ 5% 0,1W	7554	4822 130 60511	BC847B
3847	4822 051 20471	470Ω 5% 0,1W	7555	5322 130 60508	BC857B
3848	4822 051 20471	470Ω 5% 0,1W	7600	4822 209 13609	P83CE558EFB/0
3849	4822 117 10833	10KΩ 1% 0,1W	7601	4822 900 xxxxx	EEPROM SECURITY CODE
3852	4822 051 20102	1KΩ 5% 0,1W	7602	5322 209 10468	HEF4521BP
3854	4822 051 20473	47KΩ 5% 0,1W	7609	4822 130 60511	BC847B
3860	4822 051 20104	100KΩ 5% 0,1W	7800	4822 209 33029	TDA3602/N3
3862	4822 116 83864	10KΩ 5% CRB R-20	7803	4822 130 40995	BD438(141Y)
3863	4822 051 20104	100KΩ 5% 0,1W	7805	4822 130 60511	BC847B
3869	4822 051 20008	0Ω JUMP. (0805)	7809	4822 130 41484	BD677(142Y)
3870	4822 051 20008	0Ω JUMP. (0805)	7810	4822 130 60511	BC847B
3871	4822 051 20223	22KΩ 5% RC11 0805	7823	4822 130 60511	BC847B
5100	4822 157 71433	120UH 10%LAL05TB121K	7826	4822 209 12628	HEF4044BT
5350	4822 242 80259	LN-G38-311 (4,332MHZ)	7829	5322 130 60508	BC857B
5400	4822 157 71206	BLM21A10PT			
5570	4822 157 70935	97UH 10A			

Service
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ERSATZTEILE
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KiVi Service GmbH

Windmühlenstr. 41 · 31178 Giesen/Emmerke
Tel.: 0 51 21 / 600 20 · Fax 0 51 21 / 60 02 54



CDS-101WPF

CDS-101XPF

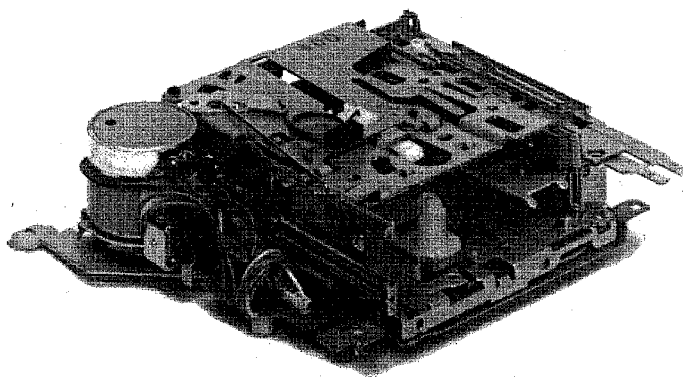
CDS-101YPF



PHIL-05033

Service Manual

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TECHNICAL DATA

Operating voltage	: 10-16V
Tape speed	: 4.76cm/sec $\pm 2\%$
Wow & flutter	: $\leq 0.35\%$ RMS (+10 - +45°C)
Crosstalk (track 2-3)	: $< -40\text{dB}$
Fast wind time	: $\leq 100\text{secs}$ (C-60)
Number of tracks	: 2x2
Channel separation (Tracks 1-2/3-4)	: $> 30\text{dB}$



PHILIPS

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GENERAL

The CDS-101 is supplied in 4 versions:

- CDS-101SPF: Standard version.
- CDS-101WPF: As CDS-101SPF version, with "Key-Off/A.M.S." and tape selector included.
- CDS-101XPF: As CDS-101SPF version, with "Key-Off/A.M.S." and "Real-Time FF/REW" included.
- CDS-101YPF: As CDS-101SPF version, with "Key-Off/A.M.S.", "Real-Time FF/REW" and tape selector included.

(A.M.S. = Automatic Music sensor System)

CONNECTIONS

CDS-101SPF/WPF/YPF

(* WPF/YPF version only; SPF version: N.C.)

Pin no.	Wire colour	Signal
1	--	--
2	--	--
3	Brown	GND
4	Red	+ 14.2 VDC
5	Orange	N.C.
6	Yellow	Play switch
7	Green	Mute switch
8	Blue	Track switch
9	Purple	Solenoid*
10	Grey	N.C.
11	White	Me/Cr sw.*

CDS101-XPF

Pin no.	Wire colour	Signal
1	Brown	GND
2	Red	+ 14.2 VDC
3	Orange	N.C.
4	Yellow	Play switch
5	Green	Mute switch
6	Blue	Track switch
7	Purple	Solenoid
8	Grey	N.C.
9	White	N.C.

HEAD CONNECTIONS

(all versions)

Pin no.	Wire colour	Signal
1	Black	GND
2	White	Left out
3	Pink	Right out

MAINTENANCE

The cassette mechanism requires periodic cleaning.

Cleaning with alcohol or spirit

- Playback head pos.109.
- Capstan & pressure rollers pos.10, 11 and 27.
- Belt (pos.105) & pulley (pos.73).

To clean head, pressure roller and capstan, it is also possible to use drop-in cassette SBC114 (4822 389 20035).

ADJUSTMENTS AND CHECKS

Equipment required:

- Universal test cassette SBC419 (4822 397 30069)
- Universal test cassette SBC420 (4822 397 30071)
- Friction test cassette 811/CTM (4822 395 30054)
- Spring scale 50-500g (4822 395 80028)
- Wow & flutter meter
- AC millivoltmeters

1. Azimuth (Fig. 1 - next page)

Azimuth alignment should be carried out on a complete car radio; proceed as follows:

- Connect the millivoltmeters to the loudspeaker outputs.
- Insert test cassette SBC419 (or SBC420), select NOR (normal play) and play the 10kHz signal.
- Adjust Azimuth screw "FWD DIRECTION" (pos. 137) for equal and maximum output voltage reading for both right and left channel.
- Switch to REV (reverse play) and play the 10kHz signal.
- Repeat the adjustment with screw "REV DIRECTION" (pos.137).

- Adjust Azimuth screw "B" (pos.143) for maximum and equal outputs both for NOR and REV play and both for right and left channel. Repeat the procedure, if necessary.

2. Pressure roller pressure

The pressure on the capstan should be 250 - 350 grammes (2.5 - 3.5N).

This pressure is measured as follows (NOR and REV):

- Select Play mode.
- Push the pressure roller back at the shown point by means of the spring scale.
- At the point where pressure roller and capstan just disengage the spring scale should be read.
- If the pressure is incorrect, replace spring 94 (95).

3. Friction clutch (Reel assy) 22

- Insert friction test cassette 811/CTM (NOR and REV).
- Play take-up torque should be 35 - 75g/cm.
- Fast wind torque should be 40 - 150g/cm.
- If the torque is not correct, replace reel assy 22.

4. Wow & flutter/tape speed (Fig. 2)

This check is carried out on an complete car radio; proceed as follows:

- Connect the wow & flutter meter to the LS outputs.
- Insert test cassette SBC419 (or SBC420) and play the 3150Hz signal.
- The wow & flutter value should be $\leq 0.35\%$
- Tape speed should be 4.76cm/sec. $\pm 2\%$
- The tape speed can be adjusted with screw "S".

In case of an excessive wow & flutter value, check following parts for correct functioning:

- motor 31
- pressure (pinch) rollers 10, 11
- belt 105
- friction clutches (reel assy's) 22
- flywheels 27
- pulley 73

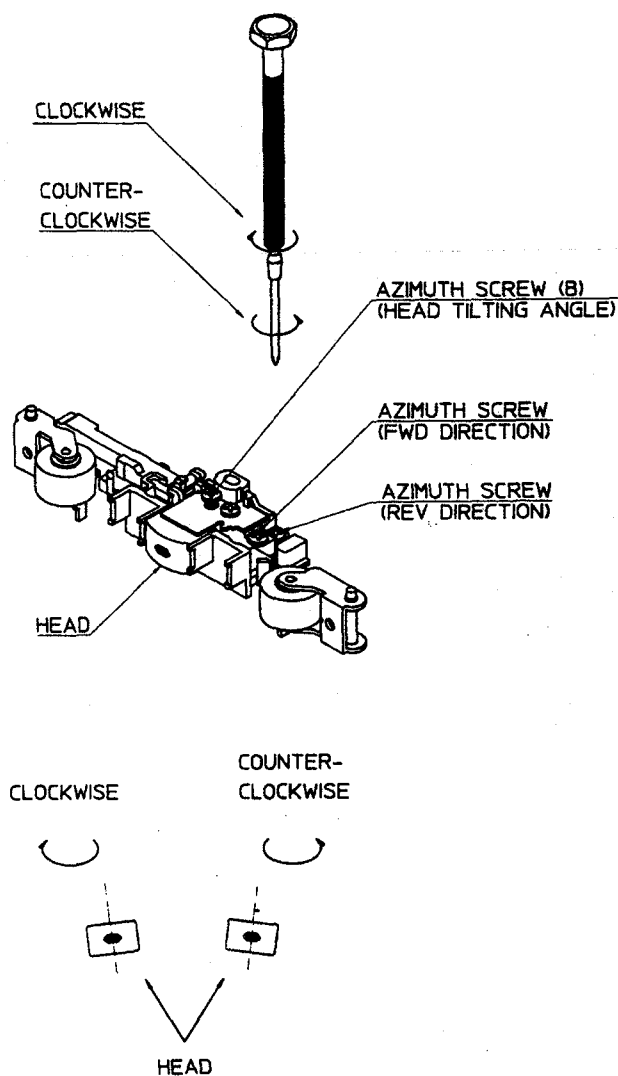


Figure 1

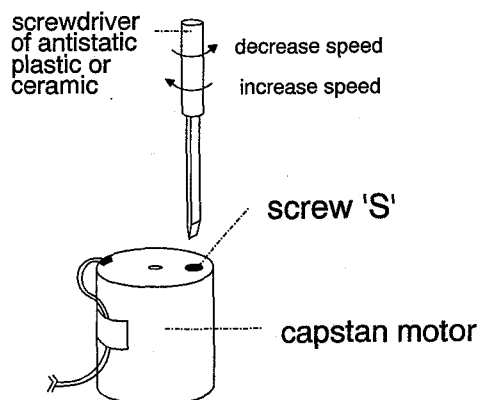


Figure 2

DISASSEMBLY INSTRUCTIONS

Refer to the exploded view to locate all positions.

Cassette Holder assy C

1. Bend the back lock of the return link 104 on eject lever 41.
2. Remove return link 104.
3. Take care that the cassette holder is in UPWARD position!
4. Remove screw 142.
5. Move the cassette holder assy to the left to unlock it from the pivots of the chassis, and lift the holder upward at the left.
6. Take the cassette holder assy out.
7. To separate the two parts of the cassette holder assy, lift the rear part up.

Reel base assy D

1. Lay the tape deck upside down on a soft surface.
2. Remove the four screws 146 which fix the bottom plate 54.
3. Remove the two screws 140 and screws 139 which fix the power switch assy A.
4. Remove the belt 105.
5. Remove the three screws 140 which fix the reel base assy.
6. Lift the reel base assy carefully.
7. To remove the reel assy 22, put a small screwdriver between the reel base and the reel assy base plate and turn the screwdriver carefully until the reel base gets loose.

Lever unit assy B

1. Remove the wire clamp 108.
2. Remove the lock arm spring 90.
3. Remove the screw 140.
4. Lift out the lever unit assy at the front.

Pressure rollers

1. First the cassette holder- and lever unit assy's should be removed.
2. Lift the pressure roller assy 10/46/47/94 (forward pressure roller) or 11/50/95 (reverse pressure roller).

Head Plate assy F and Head assy

1. First the cassette holder- and lever unit assy's should be removed.
2. Remove the two screws 136 which fix the tape guide 68.
3. Remove the adjuster arm spring 93.
4. Remove the head assy 67/93/109.
5. Remove the load lever spring 99 (not in -SPF).
6. Remove the adjuster link 66.
7. Remove the reset arm spring 86.
8. Pull the head plate 3 to the right side of the deck and lift it out carefully.

Flywheel 27

1. First the cassette holder- and lever unit assy's should be removed.
2. Remove the belt 105.
3. Remove the E-ring 126 and plate 133.
4. Remove the flywheel 27.

Note: Don't forget to re-insert the plate(s) 133 after re-assembling the flywheel(s)!

F/R arm assy G

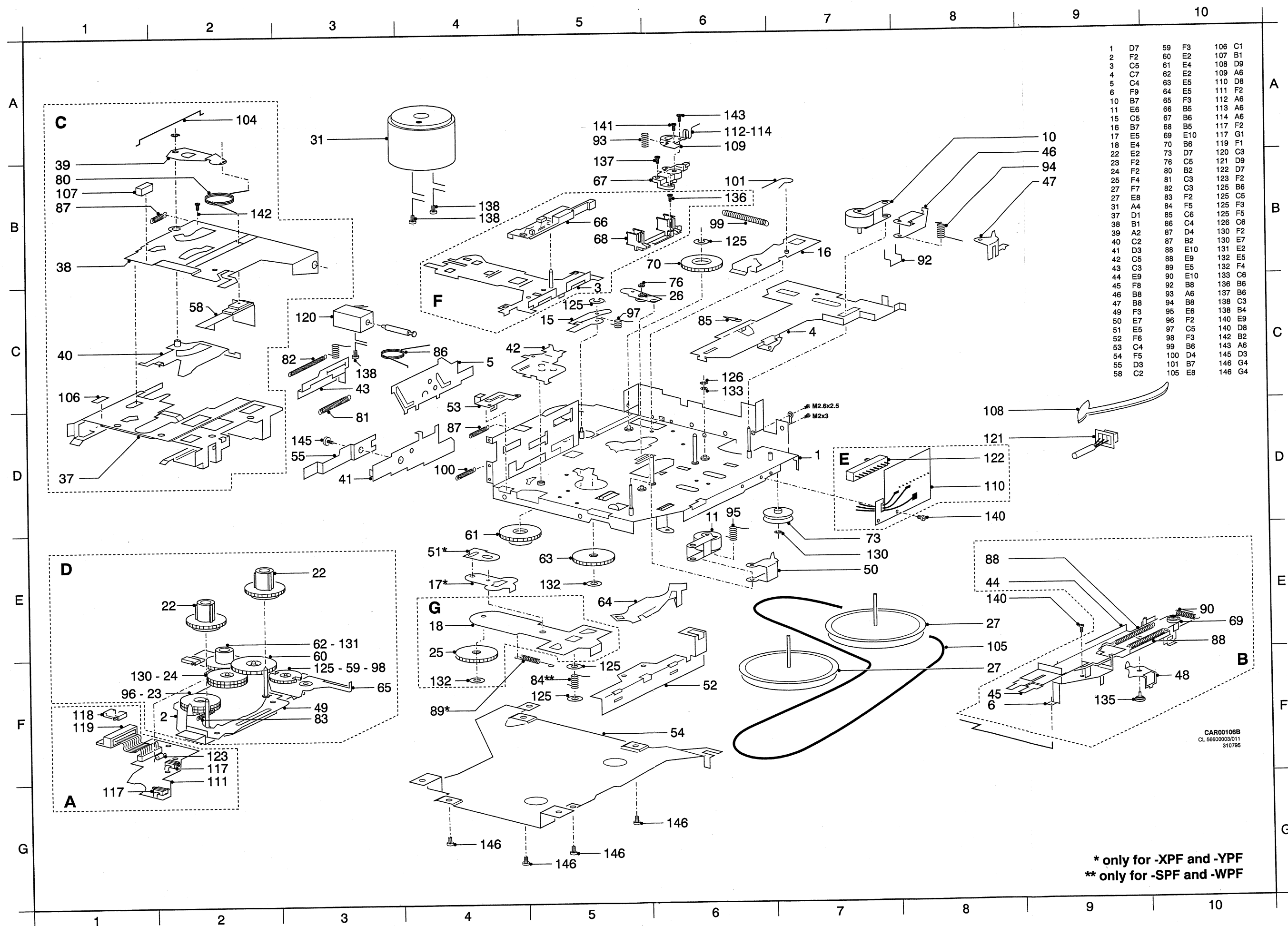
1. First the reel base assy and both flywheels should be removed.
2. Remove E-ring 125 and the F/R arm spring 84.
3. Remove F/R change lever 52.
4. Remove the F/R arm assy G.

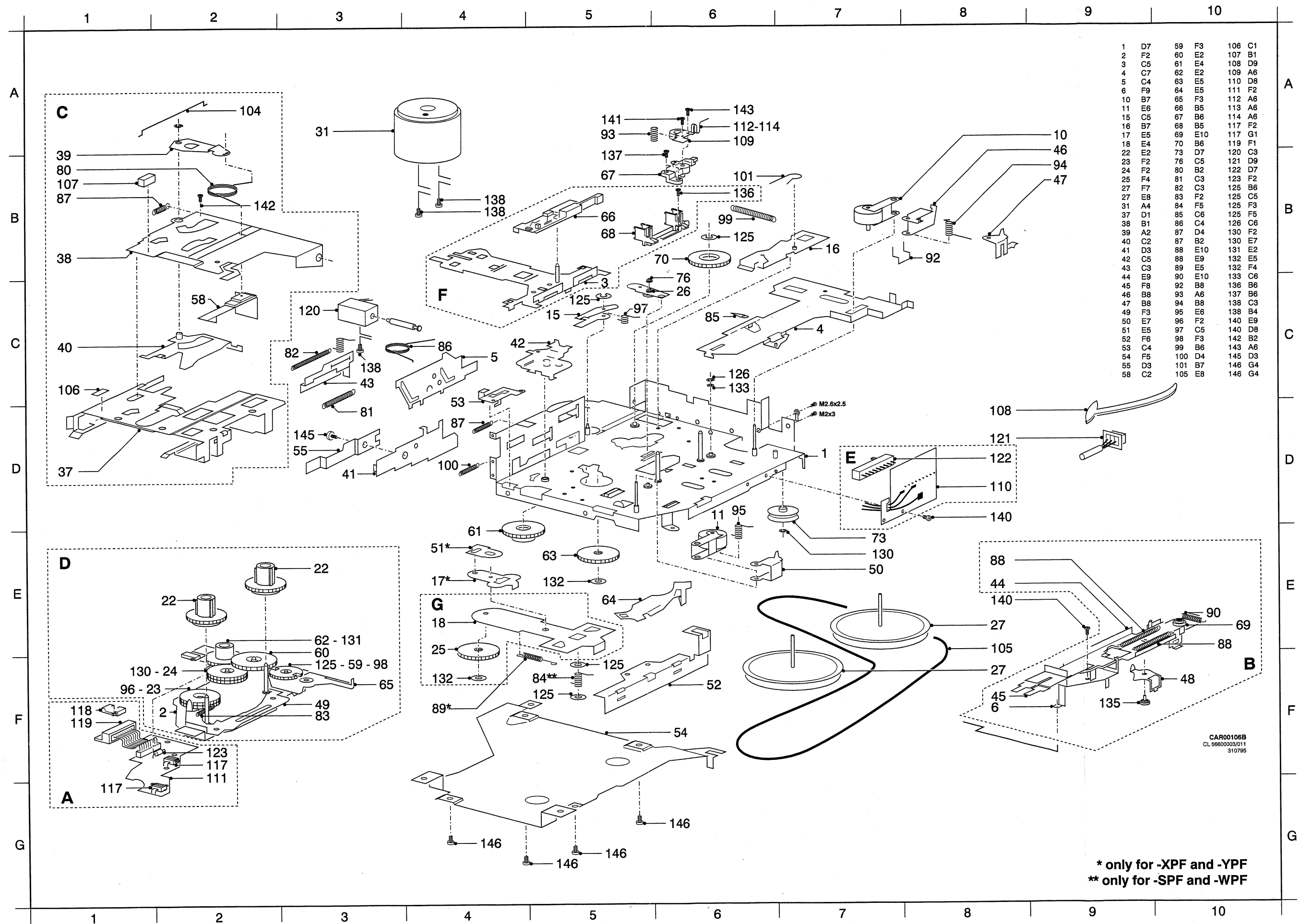
Motor assy 31

1. First the bottom plate 54 should be removed.
2. Remove, if present, fixing tapes etc. from the motor.
3. Unsolder the two wires from the motor terminals.
4. Remove the belt 105 from the motor pulley.
5. Remove the two screws 138 which fix the motor and take the motor out.

Solenoid 120

1. Unsolder the two solenoid wires from the switch pcb 111.
2. Remove the screw 138 which fixes the solenoid.





* only for -XPF and -YPF
 ** only for -SPF and -WPF

PARTSLIST

10	4822 528 81548	PINCH ROLLER FW	
11	4822 528 81549	PINCH ROLLER REV	
22	4822 528 10913	REEL ASSY	
27	4822 528 60429	FLYWHEEL ASSY	
31	4822 361 30456	MOTOR ASSY	
61	4822 522 33539	REDUCTION GEAR (A)	
63	4822 522 33541	IDLER GEAR (A)	
70	4822 522 33542	LOAD GEAR	WPF, XPF, YPF
73	4822 528 81551	IDLER PULLEY (A)	
86	4822 492 42753	RESET ARM SPRING	SPF
86	4822 492 42756	RESET ARM SPRING (K)	WPF, XPF, YPF
89	4822 492 33485	POS. SETTER SPRING	XPF, YPF
93	4822 492 33486	ADJUSTER ARM SPRING	
94	4822 492 42754	PINCH ROLLER SPG FW	
95	4822 492 42755	PINCH ROLLER SPG REW	
99	4822 492 33487	LOAD LEVER SPRING	WPF, XPF, YPF
100	4822 492 33488	TAPE SELECTOR SPRING	WPF, YPF
101	4822 492 42757	LOAD LEVER SPRING (B)	WPF, XPF, YPF
105	4822 358 31326	BELT	
109	4822 249 30219	HEAD	
120	4822 281 50188	SOLENOID	WPF, XPF, YPF
123	4822 130 83863	DIODE	WPF, XPF, YPF
125	4822 530 80699	E-RING 1.5MM	
126	4822 530 80701	E-RING 1.6MM	
132	4822 530 70629	PLATE 2.1X4MM	
133	4822 530 70628	PLATE 2.1X3.2MM	
137	4822 502 21608	AZIMUTH SCREW	
143	4822 502 21607	AZIMUTH SCREW (B)	

COMPLETE DECKS

4822 691 10436	CDS-101SPF COMPLETE
4822 691 10437	CDS-101WPF COMPLETE
4822 691 10435	CDS-101XPF COMPLETE
4822 691 10434	CDS-101YPF COMPLETE

ASSEMBLIES

A	4822 276 13605	POWER SWITCH ASSY	SPF
A	4822 276 13604	POWER SWITCH ASSY	WPF, YPF
A	4822 276 13606	POWER SWITCH ASSY	XPF
B	4822 404 21342	LEVER BRACKET ASSY	
C	4822 256 92307	CASSETTE HOLDER ASSY	
D	4822 528 10915	REEL BASE ASSY	SPF
D	4822 528 10916	REEL BASE ASSY	WPF, XPF, YPF
E	4822 214 52263	SWITCH PCB ASSY	
F	4822 466 83197	HEAD PLATE ASSY	
G	4822 404 21343	F/R ARM ASSY	SPF, WPF
G	4822 404 21344	F/R ARM ASSY	XPF, YPF

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Car cassette deck CDS-101XPS2

Service
Service
Service

Supplement

Service Manual

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GENERAL

This supplement manual should be used together with the CDS-101 service manual 4822 725 24651.

Refer for:

- technical specifications
 - maintenance
 - checks & adjustments and
 - disassembly procedure
- to that manual.

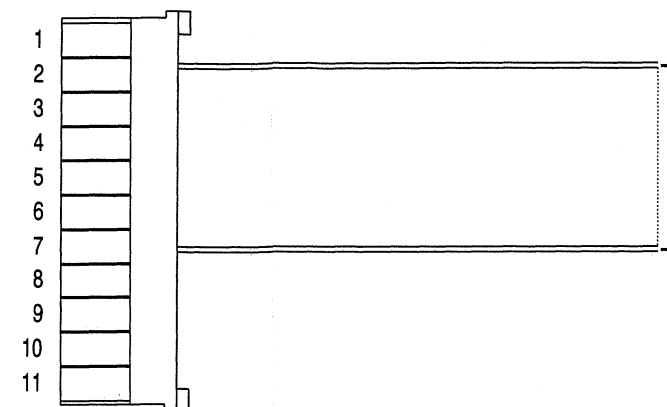
The CDS-101XPS2 has the following differences with respect to the CDS-101XPS:

- additional wire cover on the lever bracket assy (pos.B); see exploded view
- a different signal connector pos. 119; see also exploded view
- diode pos. 123 is left out.

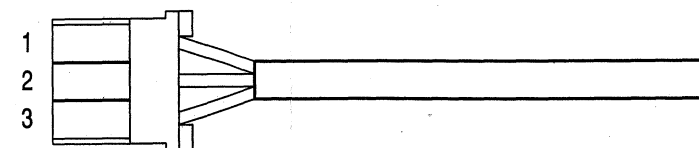
This supplement contains:

- connector layout
- an adapted exploded view and
- parts list.

CONNECTIONS



Pin no.	Wire colour	Signal
1	---	N.C.
2	Brown	Track switch
3	Red	GND
4	Orange	Play switch
5	Yellow	Play switch COM
6	Green	Motor +
7	Blue	Mute switch
8	Purple	Solenoid
9	Grey	Solenoid
10	---	N.C.
11	---	N.C.

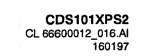


Pin no.	Wire colour	Signal
1	Black	Common GND
2	White	Left
3	Pink	Right



PHILIPS

CDS-101XPS2



Note: ONLY

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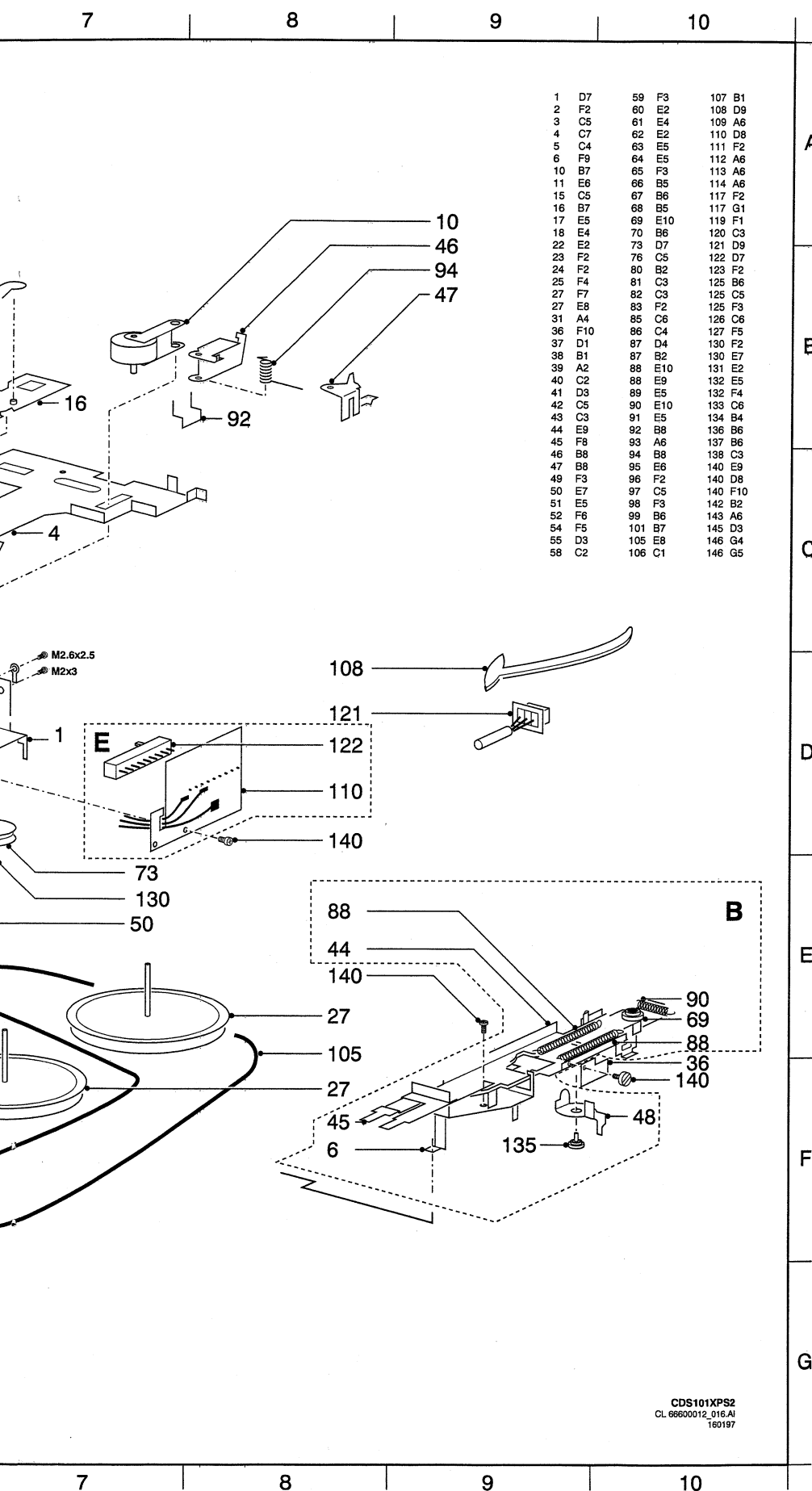
132
133
137
143

ASSETS

B
C
D
E
F
G

ASSEMBLIE

B
C
D
E
F
G



PARTS LIST

Note: ONLY those position numbers mentioned here are service parts.

10	4822 528 81548	PINCH ROLLER FW
11	4822 528 81549	PINCH ROLLER REW
22	4822 528 10913	REEL ASSY
27	4822 528 60429	FLYWHEEL ASSY
31	4822 361 30456	MOTOR ASSY
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63	4822 522 33541	IDLER GEAR (A)
70	4822 522 33542	LOAD GEAR
73	4822 528 81551	IDLER PULLEY (A)
86	4822 492 42756	RESET ARM SPRING (K)
89	4822 492 33485	POS. SETTER SPRING
93	4822 492 33486	ADJUSTER ARM SPRING
94	4822 492 42754	PINCH ROLLER SPG FW
95	4822 492 42755	PINCH ROLLER SPG REW
99	4822 492 33487	LOAD LEVER SPRING
101	4822 492 42757	LOAD LEVER SPRING (B)
105	4822 358 31326	BELT
109	4822 249 30219	HEAD
117	4822 276 13838	PUSH SWITCH
118	4822 276 13839	POWER SWITCH
119	4822 320 11821	11P-8P WIRE ASSY
120	4822 281 50188	SOLENOID
125	4822 530 80699	E-RING 1.5MM
126	4822 530 80701	E-RING 1.6MM
127	4822 532 12749	RET. RING 1.6X3.5
132	4822 530 70629	PLATE 2.1X4MM
133	4822 530 70628	PLATE 2.1X3.2MM
137	4822 502 21608	AZIMUTH SCREW
143	4822 502 21607	AZIMUTH SCREW (B)
	4822 691 10455	CDS-101XPS2 COMPLETE

ASSEMBLIES

B	4822 404 21342	LEVER BRACKET ASSY
C	4822 256 92307	CASSETTE HOLDER ASSY
D	4822 528 10916	REEL BASE ASSY
E	4822 214 52263	SWITCH PCB ASSY
F	4822 466 83197	HEAD PLATE ASSY
G	4822 404 21344	F/R ARM ASSY